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OM protein - protein search, using sw model

Run on: March 27, 2006, 19:41:31 ; Search time 23 Seconds
(without alignments)
71.892 Million cell updates/sec

Title: US-10-057-136A-1
Perfect score: 109
Sequence: 1 GSTAPPAHGVT SAPDTRPAP 20

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 572060 seqs, 82675679 residues

Total number of hits satisfying chosen parameters: 572060

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued Patents AA:*
1: /cgn2_6/ptodata/1/iaa/5_COMB.pep:*
2: /cgn2_6/ptodata/1/iaa/6_COMB.pep:*
3: /cgn2_6/ptodata/1/iaa/H_COMB.pep:*
4: /cgn2_6/ptodata/1/iaa/PCITUS_COMB.pep:*
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6: /cgn2_6/ptodata/1/iaa/backfile1.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	109	100.0	20	2	US-09-641-833-1 Sequence 1, Appli
2	109	100.0	20	2	US-08-766-350B-33 Sequence 33, Appl
3	109	100.0	23	2	US-08-766-350B-34 Sequence 34, Appl
4	109	100.0	30	2	US-08-737-896-6 Sequence 6, Appli
5	109	100.0	30	2	US-09-593-870A-47 Sequence 47, Appl
6	109	100.0	30	2	PCT-US96-09951-6 Sequence 46, Appl
7	109	100.0	32	2	US-09-593-870A-46 Sequence 1, Appli
8	109	100.0	40	1	US-08-099-354-1 Sequence 7, Appli
9	109	100.0	40	1	US-08-288-059-7 Sequence 5, Appli
10	103	94.5	25	2	US-09-497-232-5 Sequence 5, Appli
11	99	90.8	24	2	US-08-737-896-5 Sequence 23, Appl
12	99	90.8	24	2	US-09-497-232-23 Sequence 5, Appli
13	99	90.8	24	4	PCT-US96-09951-5 Sequence 3, Appli
14	99	90.8	25	2	US-09-217-306B-3 Sequence 13, Appl
15	98	89.9	30	2	US-08-134-198B-13 Sequence 54, Appl
16	95	87.2	177	2	US-09-646-028-54 Sequence 35, Appl
17	94	86.2	20	2	US-08-134-198B-35 Sequence 16, Appl
18	92	84.4	24	2	US-09-217-306B-16 Sequence 17, Appl
19	92	84.4	24	2	US-09-217-306B-17 Sequence 9, Appli
20	91	83.5	28	1	US-08-488-161-9 Sequence 9, Appli
21	91	83.5	28	2	US-09-273-685-9 Sequence 9, Appli
22	91	83.5	28	4	PCT-US95-11934-9 Sequence 5, Appli
23	91	83.5	1867	1	US-08-479-537A-5 Sequence 5, Appli
24	91	83.5	1867	2	US-09-083-116-5 Sequence 5, Appli
25	91	83.5	1867	2	US-09-134-916A-5 Sequence 2, Appli
26	91	83.5	2035	1	US-08-479-537A-2 Sequence 2, Appli
27	91	83.5	2035	2	US-09-083-116-2 Sequence 2, Appli

28	91	83.5	2035	2	US-09-134-916A-2	Sequence 2, Appli
29	90	82.6	172	2	US-09-646-028-49	Sequence 49, Appl
30	88	80.7	20	2	US-08-766-350B-55	Sequence 55, Appl
31	87	79.8	40	1	US-08-099-354-2	Sequence 2, Appli
32	87	79.8	40	1	US-08-288-059-8	Sequence 8, Appli
33	84	77.1	20	1	US-08-479-537A-3	Sequence 3, Appli
34	84	77.1	20	2	US-09-083-116-3	Sequence 3, Appli
35	84	77.1	20	2	US-09-134-916A-3	Sequence 3, Appli
36	83	76.1	20	1	US-08-833-807-8	Sequence 8, Appli
37	83	76.1	20	2	US-09-223-043-8	Sequence 8, Appli
38	83	76.1	20	2	US-09-291-351-1	Sequence 1, Appli
39	83	76.1	20	2	US-09-043-731-16	Sequence 16, Appl
40	83	76.1	20	2	US-09-593-870A-20	Sequence 20, Appl
41	83	76.1	20	2	US-08-834-240-1	Sequence 1, Appli
42	83	76.1	21	1	US-08-833-807-7	Sequence 7, Appli
43	83	76.1	21	2	US-09-223-043-7	Sequence 7, Appli
44	83	76.1	21	2	US-09-043-731-15	Sequence 15, Appl
45	83	76.1	21	2	US-09-593-870A-19	Sequence 19, Appl

ALIGNMENTS

RESULT 1
US-09-641-833-1
; Sequence 1, Application US/09641833
; Patent No. 6716966
; GENERAL INFORMATION:
; APPLICANT: Madiyalakan, Ragupathy
; TITLE OF INVENTION: Therapeutic Binding Agents Against MUC-1 Antigen and
; TITLE OF INVENTION: Methods
; FILE REFERENCE: 107823.127
; CURRENT APPLICATION NUMBER: US/09/641,833
; NUMBER OF SEQ ID NOS: 5
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1
; LENGTH: 20
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: MUC-1 antigen
; US-09-641-833-1

Query Match 100.0%; Score 109; DB 2; Length 20;
Best Local Similarity 100.0%; Pred. No. 2.3e-08;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GSTAPPAHGVT SAPDTRPAP 20
DB 1 GSTAPPAHGVT SAPDTRPAP 20

RESULT 2
US-08-766-350B-33
; Sequence 33, Application US/08766350B
; Patent No. 6949244
; GENERAL INFORMATION:
; APPLICANT: Chatterjee, Malaya
; Foon, Kenneth A.
; Chatterjee, Sunil K.
; TITLE OF INVENTION: MURINE MONOCLONAL ANTI-IDIOTYPE ANTIBODY
; 11D10 AND METHODS OF USE THEREOF
; NUMBER OF SEQUENCES: 58
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORRISON & FOERSTER
; STREET: 755 PAGE MILL ROAD
; CITY: PALO ALTO
; STATE: CA
; COUNTRY: USA
; ZIP: 94304-1018
; COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/766,350B
FILING DATE: 13-Dec-1996
CLASSIFICATION: <Unknown>
ATTORNEY/AGENT INFORMATION:
NAME: Polizzi, Catherine M.
REGISTRATION NUMBER: 40,130
REFERENCE/DOCKET NUMBER: 30414-20003.21
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 813-5600
TELEFAX: (415) 494-0792
TELEX: 706141
INFORMATION FOR SEQ ID NO: 33:
SEQUENCE CHARACTERISTICS:
LENGTH: 20 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
FEATURE:
NAME/KEY: Modified-site
LOCATION: 9
OTHER INFORMATION: /note= "May also be the amino acid
arginine(R)"
FEATURE:
NAME/KEY: Modified-site
LOCATION: 15
OTHER INFORMATION: /note= "May also be the amino acid
glutamine(E)"
FEATURE:
NAME/KEY: Modified-site
LOCATION: 16
OTHER INFORMATION: /note= "May also be the amino acid
serine(S)"
FEATURE:
NAME/KEY: Modified-site
LOCATION: 19
OTHER INFORMATION: /note= "May also be the amino acid
proline(P)"
SEQUENCE DESCRIPTION: SEQ ID NO: 33:
US-08-766-350B-33
Query Match 100.0%; Score 109; DB 2; Length 20;
Best Local Similarity 100.0%; Pred. No. 2.3e-08;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 GSTAPPAHGVTSPDTRPAP 20
DB 1 GSTAPPAHGVTSPDTRPAP 20
RESULT 3
US-08-766-350B-34
Sequence 34, Application US/08766350B
Patent No. 6949244
GENERAL INFORMATION:
APPLICANT: Chatterjee, Malaya
Poon, Kenneth A.
Chatterjee, Sunil K.
TITLE OF INVENTION: MURINE MONOCLONAL ANTI-IDIOTYPE ANTIBODY
11D10 AND METHODS OF USE THEREOF
NUMBER OF SEQUENCES: 58
CORRESPONDENCE ADDRESS:
ADDRESSEE: MORRISON & FOERSTER
STREET: 755 PAGE MILL ROAD
CITY: PALO ALTO
STATE: CA
COUNTRY: USA
ZIP: 94304-1018
COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/766,350B
FILING DATE: 13-Dec-1996
CLASSIFICATION: <Unknown>
ATTORNEY/AGENT INFORMATION:
NAME: Polizzi, Catherine M.
REGISTRATION NUMBER: 40,130
REFERENCE/DOCKET NUMBER: 30414-20003.21
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 813-5600
TELEFAX: (415) 494-0792
TELEX: 706141
INFORMATION FOR SEQ ID NO: 34:
SEQUENCE CHARACTERISTICS:
LENGTH: 23 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
FEATURE:
NAME/KEY: Modified-site
LOCATION: 12
OTHER INFORMATION: /note= "May also be the amino acid
arginine(R)"
FEATURE:
NAME/KEY: Modified-site
LOCATION: 18
OTHER INFORMATION: /note= "May also be the amino acid
glutamine(E)"
FEATURE:
NAME/KEY: Modified-site
LOCATION: 19
OTHER INFORMATION: /note= "May also be the amino acid
serine(S)"
FEATURE:
NAME/KEY: Modified-site
LOCATION: 22
OTHER INFORMATION: /note= "May also be the amino acid
proline(P)"
FEATURE:
NAME/KEY: Modified-site
LOCATION: 2
OTHER INFORMATION: /note= "May also be the amino acid
proline(P)"
SEQUENCE DESCRIPTION: SEQ ID NO: 34:
US-08-766-350B-34
Query Match 100.0%; Score 109; DB 2; Length 23;
Best Local Similarity 100.0%; Pred. No. 2.7e-08;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 GSTAPPAHGVTSPDTRPAP 20
DB 4 GSTAPPAHGVTSPDTRPAP 23
RESULT 4
US-08-737-896-6
Sequence 6, Application US/08737896
Patent No. 6168804
GENERAL INFORMATION:
APPLICANT: Samuel, John
Kwon, Glen S.
TITLE OF INVENTION: METHOD FOR ELICITING TH1-SPECIFIC
IMMUNE RESPONSE
NUMBER OF SEQUENCES: 8
CORRESPONDENCE ADDRESS:
ADDRESSEE: Fish & Richardson P.C.
STREET: 4225 Executive Square, Suite 1400
CITY: La Jolla

```
; STATE: CA
; COUNTRY: USA
; ZIP: 92037
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: Windows 95
; SOFTWARE: FastSeq for Windows Version 2.0b
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/737,896
; FILING DATE: 24-SEP-1997
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/480,499
; FILING DATE: 07-JUN-1996
; APPLICATION NUMBER: PCT/US96/09551
; FILING DATE: 07-JUN-1996
; ATTORNEY/AGENT INFORMATION:
; NAME: Haile, Lisa A.
; REGISTRATION NUMBER: 38,347
; REFERENCE/DOCKET NUMBER: 07254/037001
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 619/678-5070
; TELEFAX: 619/678-5099
; INFORMATION FOR SEQ ID NO: 6:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 30 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; IMMEDIATE SOURCE:
; CLONE: SP1-070 MUC1
;
US-08-737-896-6
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Query Match          100.0%; Score 109; DB 2; Length 30;
Best Local Similarity 100.0%; Pred. No. 3.6e-08;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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QY      1  GSTAPPAHGVTAPDTRPAP 20
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DB      5  GSTAPPAHGVTAPDTRPAP 24
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RESULT 5
US-09-593-870A-47
; Sequence 47, Application US/09593870A
; Patent No. 6548643
; GENERAL INFORMATION:
; APPLICANT: McKenzie, Ian F.C.
; APPLICANT: Apostolopoulos, Vasso
; APPLICANT: Pietersz, Geoff Allan
; TITLE OF INVENTION: Antigen Carbohydrate Compounds and Their
; FILE REFERENCE: 2368-McKenzie
; CURRENT APPLICATION NUMBER: US/09/593,870A
; CURRENT FILING DATE: 2000-06-14
; PRIOR APPLICATION NUMBER: 09/223,043
; PRIOR FILING DATE: 1998-12-30
; NUMBER OF SEQ ID NOS: 69
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 47
; LENGTH: 30
; TYPE: PRT
; ORGANISM: Homo sapiens
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US-09-593-870A-47
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Query Match          100.0%; Score 109; DB 2; Length 30;
Best Local Similarity 100.0%; Pred. No. 3.6e-08;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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QY      1  GSTAPPAHGVTAPDTRPAP 20
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DB      8  GSTAPPAHGVTAPDTRPAP 27
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RESULT 6
PCT-US96-09951-6
; Sequence 6, Application PC/TUS9609951
; GENERAL INFORMATION:
; APPLICANT: The Governors of the University of Alberta
; TITLE OF INVENTION: A METHOD FOR ELICITING A Tnl-SPECIFIC
; TITLE OF INVENTION: IMMUNE RESPONSE
; NUMBER OF SEQUENCES: 8
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Fish & Richardson P.C.
; STREET: 4225 Executive Square, Suite 1400
; CITY: La Jolla
; STATE: California
; COUNTRY: USA
; ZIP: 92037
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US96/09951
; FILING DATE: 06-JUN-1996
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: learn, June M.
; REGISTRATION NUMBER: 31,238
; REFERENCE/DOCKET NUMBER: 07254/037W01
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (619) 678-5070
; TELEFAX: (619) 678-5099
; INFORMATION FOR SEQ ID NO: 6:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 30 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; IMMEDIATE SOURCE:
; CLONE: SP1-070 MUC1
; FEATURE:
; NAME/KEY: Peptide
; LOCATION: 1..30
; PCT-US96-09951-6
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Query Match          100.0%; Score 109; DB 4; Length 30;
Best Local Similarity 100.0%; Pred. No. 3.6e-08;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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QY      1  GSTAPPAHGVTAPDTRPAP 20
        |||||||
DB      5  GSTAPPAHGVTAPDTRPAP 24
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RESULT 7
US-09-593-870A-46
; Sequence 46, Application US/09593870A
; Patent No. 6548643
; GENERAL INFORMATION:
; APPLICANT: McKenzie, Ian F.C.
; APPLICANT: Apostolopoulos, Vasso
; APPLICANT: Pietersz, Geoff Allan
; TITLE OF INVENTION: Antigen Carbohydrate Compounds and Their
; FILE REFERENCE: 2368-McKenzie
; CURRENT APPLICATION NUMBER: US/09/593,870A
; CURRENT FILING DATE: 2000-06-14
; PRIOR APPLICATION NUMBER: 09/223,043
; PRIOR FILING DATE: 1998-12-30
; NUMBER OF SEQ ID NOS: 69
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 46
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; LENGTH: 32
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-593-870A-46

Query Match 100.0%; Score 109; DB 2; Length 32;
Best Local Similarity 100.0%; Pred. No. 3.8e-08;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GSTAPPAHGVTSAPDTRPAP 20
|||
DB 8 GSTAPPAHGVTSAPDTRPAP 27

RESULT 8
US-08-099-354-1
; Sequence 1, Application US/08099354
; Patent No. 574114
; GENERAL INFORMATION:
; APPLICANT: FINN, OLIVERA J.
; APPLICANT: FONTENOT, J. D.
; APPLICANT: MONTELLARO, RONALD C.
; TITLE OF INVENTION: SYNTHETIC MULTIPLE TANDEM REPEAT MUCIN
; TITLE OF INVENTION: AND MUCIN-LIKE PEPTIDES, AND USES THEREOF
; NUMBER OF SEQUENCES: 10
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: CUSHMAN, DARBY & CUSHMAN
; STREET: 1100 NEW YORK AVENUE, N.W.
; CITY: WASHINGTON
; STATE: D.C.
; COUNTRY: USA
; ZIP: 20005
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/099,354
; FILING DATE: 30-JUL-1993
; CLASSIFICATION: 424
; ATTORNEY/AGENT INFORMATION:
; NAME: SIRILLA, GEORGE M.
; REGISTRATION NUMBER: 18221
; REFERENCE/DOCKET NUMBER: 6137/202246
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 202-861-3536
; TELEFAX: 202-822-0944
; TELEX: 6714627 CUSH
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 40 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
US-08-099-354-1

Query Match 100.0%; Score 109; DB 1; Length 40;
Best Local Similarity 100.0%; Pred. No. 4.8e-08;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GSTAPPAHGVTSAPDTRPAP 20
|||
DB 9 GSTAPPAHGVTSAPDTRPAP 28

RESULT 9
US-08-288-059-7
; Sequence 7, Application US/08288059
; Patent No. 5827666
; GENERAL INFORMATION:
; APPLICANT: FINN, OLIVERA J.

; APPLICANT: FONTENOT, J. D.
; APPLICANT: MONTELLARO, RONALD C.
; TITLE OF INVENTION: SYNTHETIC MULTIPLE TANDEM REPEAT MUCIN
; TITLE OF INVENTION: AND MUCIN-LIKE PEPTIDES, AND USES THEREOF
; NUMBER OF SEQUENCES: 36
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: CUSHMAN DARBY & CUSHMAN, L.L.P.
; STREET: 1100 NEW YORK AVENUE, N.W.
; CITY: WASHINGTON
; STATE: D.C.
; COUNTRY: USA
; ZIP: 20005
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/288,059
; FILING DATE: 08-AUG-1994
; CLASSIFICATION: 424
; ATTORNEY/AGENT INFORMATION:
; NAME: CHAPIN, MARIANA K.
; REGISTRATION NUMBER: 35,843
; REFERENCE/DOCKET NUMBER: 61137/205204
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 202-861-3711
; TELEFAX: 202-822-0944
; TELEX: 6714627 CUSH
; INFORMATION FOR SEQ ID NO: 7:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 40 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
US-08-288-059-7

Query Match 100.0%; Score 109; DB 1; Length 40;
Best Local Similarity 100.0%; Pred. No. 4.8e-08;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GSTAPPAHGVTSAPDTRPAP 20
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DB 9 GSTAPPAHGVTSAPDTRPAP 28

RESULT 10
US-09-497-232-5
; Sequence 5, Application US/09497232
; Patent No. 660012
; GENERAL INFORMATION:
; APPLICANT: AGRAWAL, Babita
; KRANTZ, Mark J.
; REDDISH, Mark A.
; LONGENECKER, B. Michael
; TITLE OF INVENTION: METHOD FOR GENERATING ACTIVATED T-CELLS
; AND ANTIGEN-PULSED ANTIGEN-PRESENTING CELLS
; NUMBER OF SEQUENCES: 34
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: FOLEY & LARDNER
; STREET: 3000 K Street, N.W.
; CITY: Washington
; STATE: D.C.
; COUNTRY: U.S.A.
; ZIP: 20007-5109
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/497,232

FILING DATE: 03-Feb-2000
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/09/074,410
FILING DATE: 08-MAY-1998
APPLICATION NUMBER: US 60/045,949
FILING DATE: 08-MAY-1997
ATTORNEY/AGENT INFORMATION:
NAME: Saxe, Bernhard D.
REGISTRATION NUMBER: 28,665
REFERENCE/DOCKET NUMBER: 042881/0114
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 672-5300
TELEFAX: (202) 672-5399
INFORMATION FOR SEQ ID NO: 5:
SEQUENCE CHARACTERISTICS:
LENGTH: 25 amino acids
TYPE: amino acid
STRANDEDNESS: <Unknown>
TOPOLOGY: linear
MOLECULE TYPE: peptide
SEQUENCE DESCRIPTION: SEQ ID NO: 5:
US-09-497-232-5

Query Match 94.5%; Score 103; DB 2; Length 25;
Best Local Similarity 100.0%; Pred. No. 1.9e-07;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 STAPPAHGVTSAPDTRPAP 20
Db 1 STAPPAHGVTSAPDTRPAP 19

RESULT 11
US-08-737-896-5
Sequence 5, Application US/08737896
Patent No. 6168804
GENERAL INFORMATION:
APPLICANT: Samuel, John
APPLICANT: Kwon, Glen S.
TITLE OF INVENTION: METHOD FOR ELICITING TH1-SPECIFIC
TITLE OF INVENTION: IMMUNE RESPONSE
NUMBER OF SEQUENCES: 8
CORRESPONDENCE ADDRESS:
ADDRESSEE: Fish & Richardson P.C.
STREET: 4225 Executive Square, Suite 1400
CITY: La Jolla
STATE: CA
COUNTRY: USA
ZIP: 92037
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: Windows 95
SOFTWARE: FastSeq for Windows Version 2.0b
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/737,896
FILING DATE: 24-SEP-1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/480,499
FILING DATE: 07-JUN-1996
APPLICATION NUMBER: PCT/US96/09551
FILING DATE: 07-JUN-1996
ATTORNEY/AGENT INFORMATION:
NAME: Halie, Lisa A.
REGISTRATION NUMBER: 38,347
REFERENCE/DOCKET NUMBER: 07254/037001
TELECOMMUNICATION INFORMATION:
TELEPHONE: 619/678-5070
TELEFAX: 619/678-5099
INFORMATION FOR SEQ ID NO: 5:
SEQUENCE CHARACTERISTICS:
LENGTH: 24 amino acids

TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: peptide
IMMEDIATE SOURCE:
CLONE: SPQ-065 MUC1
US-08-737-896-5

Query Match 90.8%; Score 99; DB 2; Length 24;
Best Local Similarity 100.0%; Pred. No. 6.1e-07;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3 TAPPAHGVTSAPDTRPAP 20
Db 1 TAPPAHGVTSAPDTRPAP 18

RESULT 12
US-09-497-232-23
Sequence 23, Application US/09497232
Patent No. 6600012
GENERAL INFORMATION:
APPLICANT: AGRAWAL, Babita
KRANTZ, Mark J.
REDDISH, Mark A.
LONGENECKER, B. Michael
TITLE OF INVENTION: METHOD FOR GENERATING ACTIVATED T-CELLS
AND ANTIGEN-PULSED ANTIGEN-PRESENTING CELLS
NUMBER OF SEQUENCES: 34
CORRESPONDENCE ADDRESS:
ADDRESSEE: FOLEY & LARDNER
STREET: 3000 K Street, N.W.
CITY: Washington
STATE: D.C.
COUNTRY: U.S.A.
ZIP: 20007-5109
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/497,232
FILING DATE: 03-Feb-2000
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/09/074,410
FILING DATE: 08-MAY-1998
APPLICATION NUMBER: US 60/045,949
FILING DATE: 08-MAY-1997
ATTORNEY/AGENT INFORMATION:
NAME: Saxe, Bernhard D.
REGISTRATION NUMBER: 28,665
REFERENCE/DOCKET NUMBER: 042881/0114
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 672-5300
TELEFAX: (202) 672-5399
INFORMATION FOR SEQ ID NO: 23:
SEQUENCE CHARACTERISTICS:
LENGTH: 24 amino acids
TYPE: amino acid
STRANDEDNESS: <Unknown>
TOPOLOGY: linear
MOLECULE TYPE: peptide
SEQUENCE DESCRIPTION: SEQ ID NO: 23:
US-09-497-232-23

Query Match 90.8%; Score 99; DB 2; Length 24;
Best Local Similarity 100.0%; Pred. No. 6.1e-07;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3 TAPPAHGVTSAPDTRPAP 20
Db 1 TAPPAHGVTSAPDTRPAP 18

RESULT 13
PCT-US96-09951-5
; Sequence 5, Application PC/TUS9609951
; GENERAL INFORMATION:
; APPLICANT: The Governors of the University of Alberta
; TITLE OF INVENTION: A METHOD FOR ELICITING A Th1-SPECIFIC
; TITLE OF INVENTION: IMMUNE RESPONSE
; NUMBER OF SEQUENCES: 8
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Fish & Richardson P.C.
; STREET: 4225 Executive Square, Suite 1400
; CITY: La Jolla
; STATE: California
; COUNTRY: USA
; ZIP: 92037
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US96/09951
; FILING DATE: 06-JUN-1996
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: Learn, June M.
; REGISTRATION NUMBER: 31,238
; REFERENCE/DOCKET NUMBER: 07254/037W01
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (619) 678-5070
; TELEFAX: (619) 678-5099
; INFORMATION FOR SEQ ID NO: 5:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 24 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; IMMEDIATE SOURCE:
; CLONE: SPQ-065 MUC1
; FEATURE:
; NAME/KEY: Peptide
; LOCATION: 1..24
; PCT-US96-09951-5

Query Match 90.8%; Score 99; DB 4; Length 24;
Best Local Similarity 100.0%; Pred. No. 6.1e-07;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3 TAPPAHGVTSAPDTRPAP 20
DB 1 TAPPAHGVTSAPDTRPAP 18

RESULT 14
US-09-217-306B-3
; Sequence 3, Application US/09217306B
; Patent No. 6465220
; GENERAL INFORMATION:
; APPLICANT: Hassan, Helle
; APPLICANT: Clausen, Henrik
; APPLICANT: Bennett, Eric P.
; TITLE OF INVENTION: Glycosylation Using GalNAc-T4 Transferase
; FILE REFERENCE: 8850*1
; CURRENT APPLICATION NUMBER: US/09/217,306B
; NUMBER OF SEQ ID NOS: 25
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 3
; LENGTH: 25
; TYPE: PRT

; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: REPEAT
; LOCATION: (1)..(25)
; OTHER INFORMATION: MUC-1 tandem repeat
US-09-217-306B-3

Query Match 90.8%; Score 99; DB 2; Length 25;
Best Local Similarity 100.0%; Pred. No. 6.4e-07;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3 TAPPAHGVTSAPDTRPAP 20
DB 1 TAPPAHGVTSAPDTRPAP 18

RESULT 15
US-08-134-198E-13
; Sequence 13, Application US/08134198E
; Patent No. 6190885
; GENERAL INFORMATION:
; APPLICANT: CANCER RESEARCH FUND
; APPLICANT: OF CONTRA COSTA
; APPLICANT: PETERSON, JERRY A.
; APPLICANT: LARocca, DAVID J.
; TITLE OF INVENTION: FUSION PROTEIN CONTAINING HMEG
; NUMBER OF SEQUENCES: 42
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Pretty, Schroeder & Poplowski
; STREET: 444 South Flower Street, Suite 1900
; CITY: Los Angeles
; STATE: California
; COUNTRY: USA
; ZIP: 90071
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5" Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0,
; SOFTWARE: Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/134,198E
; FILING DATE: October 8, 1993
; CLASSIFICATION: 530
; ATTORNEY/AGENT INFORMATION:
; NAME: Amzel, Viviana
; REGISTRATION NUMBER: 30,930
; REFERENCE/DOCKET NUMBER: P66 38208 (CRFC-003C)
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (213) 622-7700
; TELEFAX: (213) 489-4210
; INFORMATION FOR SEQ ID NO: 13:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 30
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
US-08-134-198E-13

Query Match 89.9%; Score 98; DB 2; Length 30;
Best Local Similarity 100.0%; Pred. No. 1.1e-06;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GSTAPPAHGVTSAPDTRP 18
DB 13 GSTAPPAHGVTSAPDTRP 30

Search completed: March 27, 2006, 19:42:15
Job time : 24 secs

GenCore version 5.1.7
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OM nucleic - nucleic search, using sw model

Run on: March 27, 2006, 13:48:29 ; Search time 55.5 Seconds
(without alignments)
1921.688 Million cell updates/sec

Title: US-10-057-136A-2
Perfect score: 60
Sequence: 1 GGCTCCACCGCCCCCGCAGC.....CGGACACCGAGCGCGCGCGG 60

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 1303057 seqs, 888780828 residues

Total number of hits satisfying chosen parameters: 1790828

Minimum DB seq length: 0
Maximum DB seq length: 500

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued Patents NA:*

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6: /cgn2_6/ptodata/1/ina/PCTUS_COMB.seq:*
7: /cgn2_6/ptodata/1/ina/PP_COMB.seq:*
8: /cgn2_6/ptodata/1/ina/RB_COMB.seq:*
9: /cgn2_6/ptodata/1/ina/backfileseq1.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	54	90.0	60	3	US-09-475-947A-246
2	28	46.7	295	3	US-09-788-297-31
3	27	45.0	423	3	US-09-854-133-713
4	26.6	44.3	339	3	US-09-902-540-5119
5	25.6	42.7	336	3	US-10-029-517-100
6	25.4	42.3	432	3	US-09-252-991A-1348
7	25.2	42.0	169	3	US-09-270-767-2836
8	25.2	42.0	169	3	US-09-270-767-18118
9	25	41.7	311	3	US-08-896-164-15
10	24.6	41.0	248	3	US-09-397-787-24
11	24.6	41.0	381	3	US-09-643-597-215
12	24.6	41.0	381	3	US-09-480-884A-215
13	24.6	41.0	381	3	US-09-542-615A-215
14	24.6	41.0	381	3	US-09-606-421B-215
15	24.6	41.0	381	3	US-09-466-396A-215
16	24.6	41.0	381	3	US-09-466-396A-215
17	24.6	41.0	381	3	US-09-630-940B-215
18	24.6	41.0	381	3	US-10-007-700-215
19	24.6	41.0	395	3	US-09-854-133-605
20	24.6	41.0	498	3	US-09-902-540-7279
21	24.4	40.7	356	3	US-08-896-164-17
22	24.4	40.7	392	3	US-09-513-999C-26930
23	24.2	40.3	402	3	US-09-252-991A-314
24	24	40.0	345	3	US-09-902-540-3317

25	23.8	39.7	429	3	US-09-252-991A-16048	Sequence 16048, A
26	23.8	39.7	459	3	US-09-358-580-7	Sequence 7, Appl
27	23.8	39.7	459	3	US-09-358-580-9	Sequence 9, Appl
28	23.4	39.0	279	3	US-09-252-991A-13362	Sequence 13362, A
29	23.4	39.0	387	3	US-08-968-686-1	Sequence 1, Appl
30	23.4	39.0	450	3	US-09-370-838-145	Sequence 145, App
31	23.4	39.0	450	3	US-09-854-133-145	Sequence 145, App
32	23.4	39.0	456	3	US-09-640-211A-195	Sequence 195, App
33	23.2	38.7	96	3	US-09-902-540-6548	Sequence 6548, Ap
34	23.2	38.7	363	3	US-09-107-433-1515	Sequence 1515, Ap
35	23.2	38.7	363	3	US-09-902-540-8815	Sequence 8815, Ap
36	23.2	38.7	393	3	US-09-107-433-1828	Sequence 1828, Ap
37	23.2	38.7	414	3	US-09-252-991A-13427	Sequence 13427, A
38	23.2	38.7	463	3	US-09-621-976-2084	Sequence 2084, Ap
39	23.2	38.7	474	3	US-09-902-540-3296	Sequence 3296, Ap
40	23	38.3	99	3	US-09-513-999C-36353	Sequence 36353, A
41	23	38.3	266	3	US-09-513-999C-32170	Sequence 32170, A
42	23	38.3	276	3	US-09-489-039A-6400	Sequence 6400, Ap
43	23	38.3	468	3	US-09-252-991A-6834	Sequence 6834, Ap
44	23	38.3	500	3	US-09-370-838-142	Sequence 142, App
45	23	38.3	500	3	US-09-854-133-142	Sequence 142, App

ALIGNMENTS

RESULT 1
US-09-475-947A-246
; Sequence 246, Application US/09475947A
; Patent No. 6472154
; GENERAL INFORMATION:
; APPLICANT: Garner, Harold R.
; APPLICANT: Wren, Jonathan D.
; APPLICANT: Minna, John D.
; TITLE OF INVENTION: Polymorphic Repeats in Human Genes
; FILE REFERENCE: UTSD0667
; CURRENT APPLICATION NUMBER: US/09/475, 947A
; CURRENT FILING DATE: 1999-12-31
; NUMBER OF SEQ ID NOS: 346
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 246
; LENGTH: 60
; TYPE: DNA
; ORGANISM: human
; US-09-475-947A-246

Query Match 90.0%; Score 54; DB 3; Length 60;
Best Local Similarity 100.0%; Pred. No. 2.2e-05;
Matches 54; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GGCTCCACCGCCCCCGACCGGTGTACCTCGGCCCGGACACCGAGCCG 54
Db 7 GGCTCCACCGCCCCCGACCGGTGTACCTCGGCCCGGACACCGAGCCG 60

RESULT 2
US-09-788-297-31/c
; Sequence 31, Application US/09788297
; Patent No. 6808925
; GENERAL INFORMATION:
; APPLICANT: Calos, Michele P.
; APPLICANT: Scilimenti, Christopher R.
; TITLE OF INVENTION: ALTERED RECOMBINASES FOR GENOME MODIFICATION
; FILE REFERENCE: 8400-0011
; CURRENT APPLICATION NUMBER: US/09/788, 297
; CURRENT FILING DATE: 2001-02-16
; NUMBER OF SEQ ID NOS: 34
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 31
; LENGTH: 295
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:

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; OTHER INFORMATION: Description of Artificial Sequence:R4 recombinase
; OTHER INFORMATION: atb8
US-09-788-297-31

Query Match          46.7%; Score 28; DB 3; Length 295;
Best Local Similarity 66.7%; Pred. No. 81;
Matches 40; Conservative 0; Mismatches 20; Indels 0; Gaps 0;

OY 1 GGTCCACCGCGCCCCCGACCGGTGTACCTCGGCCCCGGACACACGAGCGCGCCCG 60
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 114 GGCGCCACCTCCACGCGCGCTGCATGTCATCCGCGCCCGCTTCTTGAGCGCGCGCG 55

RESULT 3
US-09-854-133-713/c
; Sequence 713, Application US/09854133
; Patent No. 6759508
; GENERAL INFORMATION:
; APPLICANT: Lodes, Michael J.
; APPLICANT: Mohamath, Raedoh
; APPLICANT: Henderson, Robert A.
; APPLICANT: Benson, Darin R.
; APPLICANT: Secrist, Heather
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR
; TITLE OF INVENTION: THE THERAPY AND DIAGNOSIS OF LUNG CANCER
; FILE REFERENCE: 210121.475C10
; CURRENT APPLICATION NUMBER: US/09/854,133
; CURRENT FILING DATE: 2001-05-11
; NUMBER OF SEQ ID NOS: 735
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 713
; LENGTH: 423
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-854-133-713

Query Match          45.0%; Score 27; DB 3; Length 423;
Best Local Similarity 66.1%; Pred. No. 1.4e+02;
Matches 39; Conservative 0; Mismatches 20; Indels 0; Gaps 0;

OY 2 GCTCCACCGCGCCCCCGACCGGTGTACCTCGGCCCCGGACACACGAGCGCGCCCG 60
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 122 GCCCCACCGCGCGCGCGCTGTGAGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 64

RESULT 4
US-09-902-540-5119/c
; Sequence 5119, Application US/09902540
; Patent No. 6833447
; GENERAL INFORMATION:
; APPLICANT: Goldman, Barry S.
; APPLICANT: Hinkle, Gregory J.
; APPLICANT: Slater, Steven C.
; APPLICANT: Wiegand, Roger C.
; TITLE OF INVENTION: Myxococcus xanthus Genome Sequences and Uses Thereof
; FILE REFERENCE: 38-10(15849)B
; CURRENT APPLICATION NUMBER: US/09/902,540
; CURRENT FILING DATE: 2001-07-10
; PRIOR APPLICATION NUMBER: 60/217,883
; PRIOR FILING DATE: 2000-07-10
; NUMBER OF SEQ ID NOS: 16825
; SEQ ID NO 5119
; LENGTH: 339
; TYPE: DNA
; ORGANISM: Myxococcus xanthus
US-09-902-540-5119

Query Match          44.3%; Score 26.6; DB 3; Length 339;
Best Local Similarity 66.7%; Pred. No. 1.8e+02;
Matches 38; Conservative 0; Mismatches 19; Indels 0; Gaps 0;

OY 3 CTCACCGCGCGCGCGACCGGTGTACCTCGGCCCCGGACACACGAGCGCGCCCG 59
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||

; OTHER INFORMATION: Description of Artificial Sequence:R4 recombinase
; OTHER INFORMATION: atb8
US-10-029-517-100

Query Match          42.7%; Score 25.6; DB 3; Length 336;
Best Local Similarity 66.1%; Pred. No. 3.3e+02;
Matches 37; Conservative 0; Mismatches 19; Indels 0; Gaps 0;

OY 1 GGTCCACCGCGCCCCCGACCGGTGTACCTCGGCCCCGGACACACGAGCGCGCG 56
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 241 GGCTCCTCCACCACTCAGGACAGATGTCTGTGCCCCCGCCACGGAACACGAGC 296

RESULT 6
US-09-252-991A-1348
; Sequence 1348, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 1348
; LENGTH: 432
; TYPE: DNA
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-1348

Query Match          42.3%; Score 25.4; DB 3; Length 432;
Best Local Similarity 64.4%; Pred. No. 3.6e+02;
Matches 38; Conservative 0; Mismatches 21; Indels 0; Gaps 0;

OY 1 GGCTCACCGCGCCCCCGACCGGTGTACCTCGGCCCCGGACACACGAGCGCGCG 59
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 147 GACACACGACACACACGCGCCCGCGGTGACGCGCACCCCGCACACCTGCGCGAGCG 205

RESULT 7
US-09-270-767-2836
; Sequence 2836, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
; APPLICANT: Homburger et al.
; TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
; FILE REFERENCE: File Reference: 7326-094
; CURRENT APPLICATION NUMBER: US/09/270,767
; CURRENT FILING DATE: 1999-03-17
; NUMBER OF SEQ ID NOS: 62517
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/ SOFTWARE: FastSeq for Windows Version 3.0
/ SEQ ID NO 215
/ LENGTH: 381
/ TYPE: DNA
/ ORGANISM: Homo sapiens
/ FEATURE:
/ NAME/KEY: unsure
/ LOCATION: (17)
/ OTHER INFORMATION: n=A,T,C or G
/ NAME/KEY: unsure
/ LOCATION: (20)
/ OTHER INFORMATION: n=A,T,C or G
/ NAME/KEY: unsure
/ LOCATION: (60)
/ OTHER INFORMATION: n=A,T,C or G
/ NAME/KEY: unsure
/ LOCATION: (61)
/ OTHER INFORMATION: n=A,T,C or G
/ NAME/KEY: unsure
/ LOCATION: (365)
/ OTHER INFORMATION: n=A,T,C or G
US-09-643-597-215
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Query Match      41.0%; Score 24.6; DB 3; Length 381;
Best Local Similarity 65.5%; Pred. No. 5.8e+02;
Matches 36; Conservative 0; Mismatches 19; Indels 0; Gaps 0;
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```
OY      5 CCACCGCCCCCAGCCGCGTGTCACTCGCCCCCGAGACACCAAGCGCGCCCC 59
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Db      154 CCGCGCGCCCCCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCAC 208
```

RESULT 12

```
US-09-480-884A-215
/ Sequence 215, Application US/09480884A
/ Patent No. 6482597
/ GENERAL INFORMATION:
/ APPLICANT: Wang, Tongtong
/ APPLICANT: Fan, Liqun
/ APPLICANT: Hosken, Nancy A.
/ APPLICANT: Kalos, Michael D.
/ APPLICANT: Fanger, Gary R.
/ TITLE OF INVENTION: COMPOUNDS AND METHODS FOR THERAPY
/ TITLE OF INVENTION: AND DIAGNOSIS OF LUNG CANCER
/ FILE REFERENCE: 210121.455C6
/ CURRENT APPLICATION NUMBER: US/09/480,884A
/ CURRENT FILING DATE: 2001-08-27
/ NUMBER OF SEQ ID NOS: 330
/ SOFTWARE: FastSeq for Windows Version 3.0
/ SEQ ID NO 215
/ LENGTH: 381
/ TYPE: DNA
/ ORGANISM: Homo sapiens
/ FEATURE:
/ NAME/KEY: mlec_feature
/ LOCATION: (1)...(381)
/ OTHER INFORMATION: n=A,T,C or G
US-09-480-884A-215
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Query Match      41.0%; Score 24.6; DB 3; Length 381;
Best Local Similarity 65.5%; Pred. No. 5.8e+02;
Matches 36; Conservative 0; Mismatches 19; Indels 0; Gaps 0;
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```
OY      5 CCACCGCCCCCAGCCGCGTGTCACTCGCCCCCGAGACACCAAGCGCGCCCC 59
          |||||
Db      154 CCGCGCGCCCCCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCAC 208
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RESULT 13
US-09-542-615A-215
/ Sequence 215, Application US/09542615A
/ Patent No. 6518256
/ GENERAL INFORMATION:
```

```
/ APPLICANT: Wang, Tongtong
/ APPLICANT: Fan, Liqun
/ APPLICANT: Kalos, Michael D.
/ APPLICANT: Bangur, Chaltanya S.
/ APPLICANT: Hosken, Nancy A.
/ APPLICANT: Fanger, Gary R.
/ TITLE OF INVENTION: COMPOUNDS AND METHODS FOR THERAPY
/ TITLE OF INVENTION: AND DIAGNOSIS OF LUNG CANCER
/ FILE REFERENCE: 210121.455C8
/ CURRENT APPLICATION NUMBER: US/09/542,615A
/ CURRENT FILING DATE: 2000-04-14
/ NUMBER OF SEQ ID NOS: 350
/ SOFTWARE: FastSeq for Windows Version 3.0
/ SEQ ID NO 215
/ LENGTH: 381
/ TYPE: DNA
/ ORGANISM: Homo sapiens
/ FEATURE:
/ NAME/KEY: unsure
/ LOCATION: (17)
/ OTHER INFORMATION: n=A,T,C or G
/ NAME/KEY: unsure
/ LOCATION: (20)
/ OTHER INFORMATION: n=A,T,C or G
/ NAME/KEY: unsure
/ LOCATION: (60)
/ OTHER INFORMATION: n=A,T,C or G
/ NAME/KEY: unsure
/ LOCATION: (61)
/ OTHER INFORMATION: n=A,T,C or G
/ NAME/KEY: unsure
/ LOCATION: (365)
/ OTHER INFORMATION: n=A,T,C or G
US-09-542-615A-215
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Query Match      41.0%; Score 24.6; DB 3; Length 381;
Best Local Similarity 65.5%; Pred. No. 5.8e+02;
Matches 36; Conservative 0; Mismatches 19; Indels 0; Gaps 0;
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```
OY      5 CCACCGCCCCCAGCCGCGTGTCACTCGCCCCCGAGACACCAAGCGCGCCCC 59
          |||||
Db      154 CCGCGCGCCCCCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCAC 208
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RESULT 14

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US-09-606-421B-215
/ Sequence 215, Application US/09606421B
/ Patent No. 6531315
/ GENERAL INFORMATION:
/ APPLICANT: Wang, Tongtong
/ APPLICANT: Fan, Liqun
/ APPLICANT: Kalos, Michael D.
/ APPLICANT: Bangur, Chaltanya S.
/ APPLICANT: Hosken, Nancy
/ APPLICANT: Fanger, Gary R.
/ APPLICANT: Li, Samuel X.
/ APPLICANT: Wang, Aijun
/ APPLICANT: Skelky, Yasir A.W.
/ TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
/ TITLE OF INVENTION: AND DIAGNOSIS OF LUNG CANCER
/ FILE REFERENCE: 210121.455C9
/ CURRENT APPLICATION NUMBER: US/09/606,421B
/ CURRENT FILING DATE: 2000-06-28
/ NUMBER OF SEQ ID NOS: 358
/ SOFTWARE: FastSeq for Windows Version 3.0
/ SEQ ID NO 215
/ LENGTH: 381
/ TYPE: DNA
/ ORGANISM: Homo sapiens
/ FEATURE:
/ NAME/KEY: unsure
/ LOCATION: (17)
/ OTHER INFORMATION: n=A,T,C or G
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/ FEATURE:
/ NAME/KEY: unsure
/ LOCATION: (20)
/ OTHER INFORMATION: n=A,T,C or G
/ FEATURE:
/ NAME/KEY: unsure
/ LOCATION: (60)
/ OTHER INFORMATION: n=A,T,C or G
/ FEATURE:
/ NAME/KEY: unsure
/ LOCATION: (61)
/ OTHER INFORMATION: n=A,T,C or G
/ FEATURE:
/ NAME/KEY: unsure
/ LOCATION: (365)
/ OTHER INFORMATION: n=A,T,C or G
US-09-606-421B-215
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Query Match 41.0%; Score 24.6; DB 3; Length 381;
Best Local Similarity 65.5%; Pred. No. 5.8e+02;
Matches 36; Conservative 0; Mismatches 19; Indels 0; Gaps 0;
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QY 5 CCACCGCCCCCGCCGACGGTGTCACTCGCCCGGACACCAAGCGCGCCCC 59
Db 154 CCGCGCGCCCCCGCCGCGCCCGCCCTCTCAGCGCGCGCGGACACCAAGCGCGGAC 208
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RESULT 15

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US-09-466-396A-215
; Sequence 215, Application US/09466396A
; Patent No. 6696247
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; GENERAL INFORMATION:
; APPLICANT: Wang, Tongtong
; TITLE OF INVENTION: COMPOUNDS AND METHODS FOR THERAPY AND
; FILE REFERENCE: 210121.455C4
; CURRENT APPLICATION NUMBER: US/09/466,396A
; CURRENT FILING DATE: 1999-12-17
; NUMBER OF SEQ ID NOS: 224
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 215
; LENGTH: 381
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (17)
; OTHER INFORMATION: n=A,T,C or G
; NAME/KEY: unsure
; LOCATION: (20)
; OTHER INFORMATION: n=A,T,C or G
; NAME/KEY: unsure
; LOCATION: (60)
; OTHER INFORMATION: n=A,T,C or G
; NAME/KEY: unsure
; LOCATION: (61)
; OTHER INFORMATION: n=A,T,C or G
; NAME/KEY: unsure
; LOCATION: (365)
; OTHER INFORMATION: n=A,T,C or G
US-09-466-396A-215
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Query Match 41.0%; Score 24.6; DB 3; Length 381;
Best Local Similarity 65.5%; Pred. No. 5.8e+02;
Matches 36; Conservative 0; Mismatches 19; Indels 0; Gaps 0;
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```
QY 5 CCACCGCCCCCGCCGACGGTGTCACTCGCCCGGACACCAAGCGCGCCCC 59
Db 154 CCGCGCGCCCCCGCCGCGCCCGCCCTCTCAGCGCGCGGACACCAAGCGCGGAC 208
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Search completed: March 27, 2006, 16:33:29
Job time : 55.5 secs

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GenCore version 5.1.7
Copyright (c) 1993 - 2006 Bioceleration Ltd.

OM nucleic - nucleic search, using sw model

Run on: March 27, 2006, 13:48:29 ; Search time 55.5 Seconds
(without alignments)
1921.688 Million cell updates/sec

Title: US-10-057-136A-12
Perfect score: 60
Sequence: 1 GGTAATACAGCCGACCCCGC.....CGATACGAGACCGCGCCT 60

Scoring table: IDENTITY NUC
Gapop 10.0 , Gapext 1.0

Searched: 1303057 seqs, 888780828 residues

Total number of hits satisfying chosen parameters: 1790828

Minimum DB seq length: 0
MaximumDBseqlength:500

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing First 45 summaries

Database : Issued Patents NA:*
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4: /cgn2_6/ptodata/1/ina/6B_COMB.seq:*
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8: /cgn2_6/ptodata/1/ina/RE_COMB.seq:*
9: /cgn2_6/ptodata/1/ina/backfiles1.seq:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
C 1	26.2	43.7	336	3	US-09-860-473-28 Sequence 28, Appl
2	24	40.0	60	3	US-09-475-947A-246 Sequence 246, App
C 3	22.6	37.7	274	3	US-09-621-976-16450 Sequence 16450, A
4	22	36.7	68	3	US-09-304-967-53 Sequence 53, Appl
5	22	36.7	78	3	US-09-304-967-94 Sequence 94, Appl
6	22	36.7	78	3	US-09-304-967-96 Sequence 96, Appl
7	22	36.7	222	3	US-09-902-540-2990 Sequence 2990, Ap
C 8	21.8	36.3	305	3	US-09-313-294A-5819 Sequence 5819, Ap
9	21.8	36.3	403	2	US-08-997-080-163 Sequence 163, App
10	21.8	36.3	403	2	US-08-997-362-163 Sequence 163, App
11	21.8	36.3	403	3	US-09-095-855-163 Sequence 163, App
12	21.8	36.3	403	3	US-09-324-542-163 Sequence 163, App
13	21.8	36.3	403	3	US-09-205-426-163 Sequence 163, App
14	21.6	36.0	83	3	US-09-304-967-75 Sequence 75, Appl
C 15	21.2	35.3	289	3	US-09-513-999C-35414 Sequence 35414, A
C 16	21.2	35.3	396	3	US-10-197-220-15 Sequence 15, Appl
17	21.2	35.3	415	3	US-09-096-731A-44 Sequence 44, Appl
18	21.2	35.3	478	3	US-09-096-731A-43 Sequence 43, Appl
19	21	35.0	68	3	US-09-304-967-51 Sequence 51, Appl
20	21	35.0	68	3	US-09-304-967-55 Sequence 55, Appl
21	21	35.0	68	3	US-09-304-967-57 Sequence 57, Appl
22	21	35.0	78	3	US-09-304-967-100 Sequence 100, App
23	21	35.0	83	3	US-09-304-967-79 Sequence 79, Appl
C 24	21	35.0	147	3	US-09-902-540-5252 Sequence 5252, Ap

25	21	35.0	258	3	US-09-902-540-4395	Sequence 4395, Ap
26	20.8	34.7	280	3	US-09-513-999C-30985	Sequence 30985, A
C 27	20.8	34.7	450	3	US-09-252-991A-5753	Sequence 5753, Ap
C 28	20.6	34.3	102	3	US-09-270-767-7771	Sequence 7771, Ap
C 29	20.6	34.3	102	3	US-09-270-767-23053	Sequence 23053, A
C 30	20.6	34.3	110	3	US-08-783-853A-25	Sequence 25, Appl
C 31	20.6	34.3	110	3	US-09-344-050-25	Sequence 25, Appl
C 32	20.6	34.3	267	3	US-09-252-991A-13951	Sequence 13951, A
C 33	20.6	34.3	386	9	5200327-1	Patent No. 5200327
C 34	20.6	34.3	392	2	US-08-318-193-1	Sequence 1, Appli
C 35	20.6	34.3	432	3	US-09-252-991A-7402	Sequence 7402, Ap
C 36	20.6	34.3	441	3	US-09-252-991A-3890	Sequence 3890, Ap
37	20.6	34.3	450	3	US-09-902-540-2337	Sequence 2337, Ap
C 38	20.6	34.3	468	3	US-09-252-991A-7288	Sequence 7288, Ap
C 39	20.2	33.7	324	3	US-09-252-991A-7580	Sequence 7580, Ap
40	20.2	33.7	417	3	US-09-252-991A-15150	Sequence 15150, A
41	20.2	33.7	446	2	US-08-796-414B-5	Sequence 5, Appli
42	20	33.3	48	3	US-09-304-967-47	Sequence 47, Appl
43	20	33.3	48	3	US-09-304-967-67	Sequence 67, Appl
44	20	33.3	48	3	US-09-304-967-90	Sequence 90, Appl
45	20	33.3	68	3	US-09-304-967-49	Sequence 49, Appl

ALIGNMENTS

RESULT 1
US-09-860-473-28/c
; Sequence 28, Application US/09860473
; Patent No. 6656732
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Andrew T. Watt
; TITLE OF INVENTION: ANTISENSE MODULATION OF SRC-C EXPRESSION
; FILE REFERENCE: RTS-0222
; CURRENT APPLICATION NUMBER: US/09/860,473
; CURRENT FILING DATE: 2001-05-18
; NUMBER OF SEQ ID NOS: 169
; SEQ ID NO 28
; LENGTH: 336
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
US-09-860-473-28

Query Match 43.7%; Score 26.2; DB 3; Length 336;
Best Local Similarity 67.3%; Pred. No. 8.7;
Matches 37; Conservative 0; Mismatches 18; Indels 0; Gaps 0;

QY 1 GGTAATACAGCCGACCCGACATGCGTCAAGAGCGCTCCGATACGAGACCGG 55
Db 107 GGAAGTCACAGCGGAGCGGAGAGACGCGGCTGCGGCTCCGAGCGCGG 53

RESULT 2
US-09-475-947A-246
; Sequence 246, Application US/09475947A
; Patent No. 6472154
; GENERAL INFORMATION:
; APPLICANT: Garner, Harold R.
; APPLICANT: Wren, Jonathan D.
; APPLICANT: Minna, John D.
; TITLE OF INVENTION: Polymorphic Repeats in Human Genes
; FILE REFERENCE: UTS0667
; CURRENT APPLICATION NUMBER: US/09/475,947A
; CURRENT FILING DATE: 1999-12-31
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 246
; LENGTH: 60
; TYPE: DNA
; ORGANISM: human
US-09-475-947A-246


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; PRIOR APPLICATION NUMBER: PCT/GB20/00589
; PRIOR FILING DATE: 1992-04-02
; NUMBER OF SEQ ID NOS: 123
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 96
; LENGTH: 78
; TYPE: DNA
; ORGANISM: Red clover necrotic mosaic virus
US-09-304-967-96

Query Match          36.7%; Score 22; DB 3; Length 78;
Best Local Similarity 73.7%; Pred. No. 2e+02;
Matches 28; Conservative 0; Mismatches 10; Indels 0; Gaps 0;

QY      23 ATGCGCTCAGCAGCGCTCCGGATACGAGCCGCCCT 60
      ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db      15 ATGGTGTTACTTCTGCTCTCGATACTAGACCCTGCTCCT 52

RESULT 7
US-09-902-540-2990/c
; Sequence 2990, Application US/09902540
; Patent No. 6833447
; GENERAL INFORMATION:
; APPLICANT: Goldman, Barry S.
; APPLICANT: Hinkle, Gregory J.
; APPLICANT: Slater, Steven C.
; APPLICANT: Wiegand, Roger C.
; TITLE OF INVENTION: Myxococcus xanthus Genome Sequences and Uses Thereof
; FILE REFERENCE: 38-10(15849)B
; CURRENT APPLICATION NUMBER: US/09/902,540
; PRIOR FILING DATE: 2001-07-10
; PRIOR APPLICATION NUMBER: 60/217,883
; PRIOR FILING DATE: 2000-07-10
; NUMBER OF SEQ ID NOS: 16825
; SEQ ID NO 2990
; LENGTH: 222
; TYPE: DNA
; ORGANISM: Myxococcus xanthus
US-09-902-540-2990

Query Match          36.7%; Score 22; DB 3; Length 222;
Best Local Similarity 67.4%; Pred. No. 2.2e+02;
Matches 31; Conservative 0; Mismatches 15; Indels 0; Gaps 0;

QY      5 GTACAGCGCCACCGCACATGCGCTCAGCAGCGCTCCGGATACGAG 50
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Db      60 GTGCAGCACCGACCGCACGTCACCCCGTCAAGCGCTCTGCGACGAG 15

RESULT 8
US-09-313-294A-5819/c
; Sequence 5819, Application US/09313294A
; Patent No. 6476212
; GENERAL INFORMATION:
; APPLICANT: Lalgudi, Raghunath V.
; APPLICANT: Ito, Laura Y.
; APPLICANT: Sherman, Bradley K.
; TITLE OF INVENTION: POLYNUCLEOTIDES AND POLYPEPTIDES DERIVED FROM CORN EAR
; FILE REFERENCE: PL-0017 US
; CURRENT APPLICATION NUMBER: US/09/313,294A
; PRIOR FILING DATE: 1999-05-14
; NUMBER OF SEQ ID NOS: 7600
; SOFTWARE: PERL Program
; SEQ ID NO 5819
; LENGTH: 305
; TYPE: DNA
; ORGANISM: Zea mays
; FEATURE:
; NAME/KEY: misc feature
; OTHER INFORMATION: Incyte ID No. 6476212 700350734H1
; NAME/KEY: unsure
; LOCATION: 52-53, 300
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; OTHER INFORMATION: a, t, c, g, or other
US-09-313-294A-5819

Query Match          36.3%; Score 21.8; DB 3; Length 305;
Best Local Similarity 61.4%; Pred. No. 2.6e+02;
Matches 35; Conservative 0; Mismatches 22; Indels 0; Gaps 0;

QY      2 GTACTACAGCGCCACCGCACATGCGCTCAGCAGCGCTCCGGATACGAGACCGCGCC 58
      ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db      177 GTAAGCACCGCCCTCCGGCTACGCGCGCACGACGCGACCTCTCTACTGAGAGC 121

RESULT 9
US-08-997-080-163
; Sequence 163, Application US/08997080
; Patent No. 5968524
; GENERAL INFORMATION:
; APPLICANT: WATSON, JAMES D.
; APPLICANT: TAN, PAUL L.J.
; TITLE OF INVENTION: METHODS AND COMPOUNDS FOR THE TREATMENT OF IMMUNOLOGICALLY-
; NUMBER OF SEQUENCES: 194
; CORRESPONDENCE ADDRESSES:
; ADDRESSES: Law Offices of Ann W. Speckman
; STREET: 2601 Elliott Avenue, Suite 4185
; CITY: Seattle
; STATE: WA
; COUNTRY: USA
; ZIP: 98121
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/997,080
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Sleath, Janet
; REGISTRATION NUMBER: 37,007
; REFERENCE/DOCKET NUMBER: 11000.1007
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 206-269-0565
; TELEFAX: 206-269-0563
; TELEX:
; INFORMATION FOR SEQ ID NO: 163:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 403 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; US-08-997-080-163

Query Match          36.3%; Score 21.8; DB 2; Length 403;
Best Local Similarity 61.4%; Pred. No. 2.7e+02;
Matches 35; Conservative 0; Mismatches 22; Indels 0; Gaps 0;

QY      4 AGTACAGCGCCACCGCACATGCGCTCAGCAGCGCTCCGGATACGAGACCGCGCCT 60
      ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db      30 AGTACAACCGCGCCGACCTGAGCGCGCAGAACTCCGTCCGCATCGCGCGCGCT 86

RESULT 10
US-08-997-362-163
; Sequence 163, Application US/08997362
; Patent No. 5985287
; GENERAL INFORMATION:
; APPLICANT: Tan, Paul
; APPLICANT: HiYama, Jun
; APPLICANT: Visser, Elizabeth
```

```
; APPLICANT: Skinner, Margot
; APPLICANT: Scott, Linda
; APPLICANT: Prestidge, Ross
; TITLE OF INVENTION: COMPOUNDS AND METHODS FOR
; TREATMENT AND DIAGNOSIS OF MYCOBACTERIAL INFECTIONS
; NUMBER OF SEQUENCES: 194
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Law Offices of Ann W. Speckman
; STREET: 2601 Elliott Avenue, Suite 4185
; CITY: Seattle
; STATE: WA
; COUNTRY: USA
; ZIP: 98121
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/997,362
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: U.S. Patent Application No. 5985287 08/873,970
; FILING DATE: June 12, 1997
; APPLICATION NUMBER: U.S. Patent Application No. 5985287 08/705,347
; FILING DATE: August 29, 1996
; ATTORNEY/AGENT INFORMATION:
; NAME: Sleath, Janet
; REGISTRATION NUMBER: 37,007
; REFERENCE/DOCKET NUMBER: 11000.1002c2
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 206-269-0565
; TELEFAX: 206-269-0563
; TELEX:
; INFORMATION FOR SEQ ID NO: 163:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 403 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
;
US-08-997-362-163

Query Match      36.3%; Score 21.8; DB 2; Length 403;
Best Local Similarity 61.4%; Pred. No. 2.7e+02;
Matches 35; Conservative 0; Mismatches 22; Indels 0; Gaps 0;

QY      4 AGTACAGCGCCACCGCACATGCGCTCAGCAGCGCTCCGATACGAGACCGCGCCT 60
DB      30 AGTACAACCGCGCCGCGACCTGACGCGCGGAGAACTCCGTCGATCGCGCGCGCT 86

RESULT 11
US-09-095-855-163
; Sequence 163, Application US/09095855
; Patent No. 6160093
; GENERAL INFORMATION:
; APPLICANT: Tan, Paul
; APPLICANT: Visser, Elizabeth
; APPLICANT: Skinner, Margot
; APPLICANT: Prestidge, Ross
; TITLE OF INVENTION: Compounds and Methods for
; TREATMENT AND DIAGNOSIS OF MYCOBACTERIAL INFECTIONS
; NUMBER OF SEQUENCES: 208
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Law Offices of Ann W. Speckman
; STREET: 2601 Elliott Avenue, Suite 4185
; CITY: Seattle
; STATE: WA
; COUNTRY: USA
; ZIP: 98121
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
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; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/095,855
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/705,347
; FILING DATE: 29-AUG-1996
; APPLICATION NUMBER: 08/873,970
; FILING DATE: 12-JUN-1997
; APPLICATION NUMBER: 08/997,362
; FILING DATE: 23-DEC-1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Sleath, Janet
; REGISTRATION NUMBER: 37,007
; REFERENCE/DOCKET NUMBER: 11000.1002c3
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 206-269-0565
; TELEFAX: 206-269-0563
; TELEX:
; INFORMATION FOR SEQ ID NO: 163:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 403 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
;
US-09-095-855-163

Query Match      36.3%; Score 21.8; DB 3; Length 403;
Best Local Similarity 61.4%; Pred. No. 2.7e+02;
Matches 35; Conservative 0; Mismatches 22; Indels 0; Gaps 0;

QY      4 AGTACAGCGCCACCGCACATGCGCTCAGCAGCGCTCCGATACGAGACCGCGCCT 60
DB      30 AGTACAACCGCGCCGCGACCTGACGCGCGGAGAACTCCGTCGATCGCGCGCGCT 86

RESULT 12
US-09-324-542-163
; Sequence 163, Application US/09324542
; Patent No. 6328978
; GENERAL INFORMATION:
; APPLICANT: Watson, James D.
; APPLICANT: Tan, Paul L.J.
; APPLICANT: Prestidge, Ross
; TITLE OF INVENTION: Methods and Compounds for the Treatment
; OF IMMUNOLOGICALLY-MEDIATED SKIN DISORDERS
; FILE REFERENCE: 11000.1007c1
; CURRENT APPLICATION NUMBER: US/09/324,542
; FILING DATE: 1999-06-02
; EARLIER APPLICATION NUMBER: US 08/997,080
; FILING DATE: 1997-12-23
; NUMBER OF SEQ ID NOS: 194
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 163
; LENGTH: 403
; TYPE: DNA
; ORGANISM: Mycobacterium vaccae
;
US-09-324-542-163

Query Match      36.3%; Score 21.8; DB 3; Length 403;
Best Local Similarity 61.4%; Pred. No. 2.7e+02;
Matches 35; Conservative 0; Mismatches 22; Indels 0; Gaps 0;

QY      4 AGTACAGCGCCACCGCACATGCGCTCAGCAGCGCTCCGATACGAGACCGCGCCT 60
DB      30 AGTACAACCGCGCCGCGACCTGACGCGCGGAGAACTCCGTCGATCGCGCGCGCT 86

RESULT 13
US-09-205-426-163
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; Sequence 163, Application US/09205426
; Patent No. 6406704
; GENERAL INFORMATION:
; APPLICANT: Watson, James D.
; APPLICANT: Tan, Paul L. J.
; TITLE OF INVENTION: Compounds and Methods for Treatment and
; TITLE OF INVENTION: Diagnosis of Mycobacterial Infections
; FILE REFERENCE: 11000.1002c4
; CURRENT APPLICATION NUMBER: US/09/205,426
; CURRENT FILING DATE: 1998-12-04
; EARLIER APPLICATION NUMBER: 09/095,855
; EARLIER FILING DATE: 1998-06-11
; EARLIER APPLICATION NUMBER: 08/997,362
; EARLIER FILING DATE: 1997-12-23
; EARLIER APPLICATION NUMBER: 08/873,970
; EARLIER FILING DATE: 1997-06-12
; EARLIER APPLICATION NUMBER: 08/705,347
; EARLIER FILING DATE: 1996-08-29
; NUMBER OF SEQ ID NOS: 208
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 163
; LENGTH: 403
; TYPE: DNA
; ORGANISM: Mycobacterium vaccae
US-09-205-426-163
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Query Match      36.3%; Score 21.8; DB 3; Length 403;
Best Local Similarity 61.4%; Pred. No. 2.7e+02;
Matches 35; Conservative 0; Mismatches 22; Indels 0; Gaps 0;
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QY      4 AGTACAGCGCCACCGCATGCGCTCCGATACGAGACCGGCGCT 60
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Db      30 AGTACACCGCGCCGACCTGAGCGCGGAGAACTCCGTGGCATCGGCGCGCT 86
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RESULT 14

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US-09-304-967-75
; Sequence 75, Application US/09304967
; Patent No. 6884623
; GENERAL INFORMATION:
; APPLICANT: Lomonosoff, George P.
; APPLICANT: Johnson, John E.
; APPLICANT: Bendig, Mary
; APPLICANT: Jones, Tim
; APPLICANT: Longstaff, Marian
; TITLE OF INVENTION: Modified Plant Viruses as Vectors of Heterologous
; TITLE OF INVENTION: Peptides
; FILE REFERENCE: DOW-04646
; CURRENT APPLICATION NUMBER: US/09/304,967
; CURRENT FILING DATE: 1999-05-05
; PRIOR APPLICATION NUMBER: 08/471,048
; PRIOR FILING DATE: 1995-06-06
; PRIOR APPLICATION NUMBER: 08/612,858
; PRIOR FILING DATE: 1996-03-12
; PRIOR APPLICATION NUMBER: 08/137,032
; PRIOR FILING DATE: 1993-03-18
; PRIOR APPLICATION NUMBER: PCT/GB20/00589
; PRIOR FILING DATE: 1992-04-02
; NUMBER OF SEQ ID NOS: 123
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 75
; LENGTH: 83
; TYPE: DNA
; ORGANISM: Lucerne transient streak virus
US-09-304-967-75
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Query Match      36.0%; Score 21.6; DB 3; Length 83;
Best Local Similarity 68.2%; Pred. No. 2.7e+02;
Matches 30; Conservative 0; Mismatches 14; Indels 0; Gaps 0;
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QY      17 CCGACATGGCGTCACGAGCGCTCCGATACGAGACCGGCGCT 60
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Db      11 CCATAAACGGTGTACTTCTGCTCCTGATACTAGACCTGCTCCT 54
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RESULT 15
US-09-513-999C-35414/C
; Sequence 35414, Application US/09513999C
; Patent No. 6783961
; GENERAL INFORMATION:
; APPLICANT: Dumas Milne Edwards, J.B.
; APPLICANT: Duclert, A.
; APPLICANT: Giordano, J.Y.
; TITLE OF INVENTION: Expressed Sequence Tags and Encoded Human Proteins.
; Patent No. 6783961
; FILE REFERENCE: 59.US2.REG
; CURRENT APPLICATION NUMBER: US/09/513,999C
; CURRENT FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: US 60/122,487
; PRIOR FILING DATE: 1999-02-26
; NUMBER OF SEQ ID NOS: 36681
; SOFTWARE: Patent.pm
; SEQ ID NO 35414
; LENGTH: 289
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: 192
; OTHER INFORMATION: B=g or c
US-09-513-999C-35414
```

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Query Match      35.3%; Score 21.2; DB 3; Length 289;
Best Local Similarity 60.3%; Pred. No. 4.1e+02;
Matches 35; Conservative 0; Mismatches 23; Indels 0; Gaps 0;
```

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QY      1 GGTAGTACAGCGCCACCGCATGCGCTCAGAGCGCTCCGATACGAGACCGGCGC 58
      |||||  |||||  |||||  |||||  |||||  |||||
Db      105 GCTTGCGCGGCTCCACCTTCTGCTGCGCTCACTGCCACACGATCAGAACTCGGAGC 48
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Search completed: March 27, 2006, 16:33:28
Job time : 55.5 secs

This Page Blank (uspto)

GenCore version 5.1.7
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OM nucleic - nucleic search, using sw model

Run on: March 27, 2006, 13:49:57 ; Search time 371.4 Seconds
(without alignments)
1335.925 Million cell updates/sec

Title: US-10-057-136A-12
Perfect score: 60
Sequence: 1 GGTAAGTACAGCGCCACCCGC.....CGGATACGAGACCGCGCCT 60

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 9793542 seqs, 4134689005 residues

Total number of hits satisfying chosen parameters: 14089978

Minimum DB seq length: 0
Maximum DB seq length: 500

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published Applications NA Main:
1: /cgn2_6/ptodata/1/pubpna/US07_PUBCOMB.seq:*
2: /cgn2_6/ptodata/1/pubpna/US08_PUBCOMB.seq:*
3: /cgn2_6/ptodata/1/pubpna/US09_PUBCOMB.seq:*
4: /cgn2_6/ptodata/1/pubpna/US09B_PUBCOMB.seq:*
5: /cgn2_6/ptodata/1/pubpna/US10A_PUBCOMB.seq:*
6: /cgn2_6/ptodata/1/pubpna/US10B_PUBCOMB.seq:*
7: /cgn2_6/ptodata/1/pubpna/US10C_PUBCOMB.seq:*
8: /cgn2_6/ptodata/1/pubpna/US10D_PUBCOMB.seq:*
9: /cgn2_6/ptodata/1/pubpna/US10E_PUBCOMB.seq:*
10: /cgn2_6/ptodata/1/pubpna/US11_PUBCOMB.seq:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB	ID	Description
1	60	100.0	60	5	US-10-057-136-12	Sequence 12, Appl
2	38.2	63.7	60	5	US-10-057-136-9	Sequence 9, Appl
3	37.6	62.7	60	5	US-10-057-136-4	Sequence 4, Appl
4	36.6	61.0	60	5	US-10-057-136-8	Sequence 8, Appl
5	32.8	54.7	60	5	US-10-057-136-7	Sequence 7, Appl
6	29	48.3	60	5	US-10-057-136-6	Sequence 6, Appl
7	28.8	48.0	72	7	US-10-296-734-1165	Sequence 1165, Ap
8	28.6	47.7	120	8	US-10-635-211-3	Sequence 3, Appl
9	28.6	47.7	162	8	US-10-635-211-8	Sequence 8, Appl
10	27.4	45.7	60	5	US-10-057-136-2	Sequence 2, Appl
11	27	45.0	60	5	US-10-057-136-11	Sequence 11, Appl
12	26.2	43.7	336	8	US-10-476-962-28	Sequence 28, Appl
13	25.8	43.0	60	5	US-10-057-136-5	Sequence 5, Appl
14	25.8	43.0	60	5	US-10-057-136-10	Sequence 10, Appl
15	25.8	43.0	78	5	US-10-057-136-13	Sequence 13, Appl
16	24.6	41.0	60	7	US-10-716-293-214	Sequence 214, App
17	24.4	40.7	60	5	US-10-057-136-14	Sequence 14, Appl
18	24.2	40.3	93	7	US-10-471-607-4	Sequence 4, Appl
19	24.2	40.3	157	7	US-10-471-607-6	Sequence 6, Appl
20	23.6	39.3	399	8	US-10-425-115-90663	Sequence 90663, A
21	22.6	37.7	198	8	US-10-742-379-624	Sequence 624, App
22	22.6	37.7	198	8	US-10-742-379-626	Sequence 626, App
23	22.6	37.7	198	8	US-10-742-379-630	Sequence 630, App

c	24	22.6	37.7	436	7	US-10-767-701-20967	Sequence 20967, A
c	25	22.6	37.7	483	7	US-10-282-122A-29364	Sequence 29364, A
c	26	22.2	37.0	164	8	US-10-425-115-116069	Sequence 116069, A
c	27	22	36.7	494	8	US-10-425-115-116656	Sequence 116656, A
c	28	21.8	36.3	93	7	US-10-471-607-3	Sequence 3, Appl
c	29	21.8	36.3	156	7	US-10-471-607-5	Sequence 5, Appl
c	30	21.8	36.3	157	7	US-10-471-607-9	Sequence 9, Appl
c	31	21.8	36.3	275	7	US-10-437-963-87642	Sequence 87642, A
c	32	21.8	36.3	276	3	US-09-923-876-4694	Sequence 4694, Ap
c	33	21.8	36.3	276	3	US-09-923-876-4694	Sequence 4694, Ap
c	34	21.8	36.3	403	3	US-09-880-505-163	Sequence 163, App
c	35	21.8	36.3	403	5	US-10-051-643-163	Sequence 163, App
c	36	21.6	36.0	85	9	US-10-343-095A-89	Sequence 89, Appl
c	37	21.6	36.0	164	3	US-09-864-864-258	Sequence 258, App
c	38	21.6	36.0	247	8	US-10-425-115-46211	Sequence 46211, A
c	39	21.6	36.0	274	7	US-10-437-963-17682	Sequence 17682, A
c	40	21.6	36.0	316	7	US-10-437-963-17682	Sequence 17682, A
c	41	21.6	36.0	386	8	US-10-425-115-75451	Sequence 75451, A
c	42	21.6	36.0	446	8	US-10-425-115-45263	Sequence 45263, A
c	43	21.6	36.0	449	7	US-10-437-963-36585	Sequence 36585, A
c	44	21.6	36.0	471	3	US-09-373-658-59	Sequence 59, Appl
c	45	21.6	36.0	471	3	US-09-989-687-59	Sequence 59, Appl

ALIGNMENTS

RESULT 1

US-10-057-136-12
; Sequence 12, Application US/10057136
; Publication No. US20030021770A1
; GENERAL INFORMATION:
; APPLICANT: SCHIOM, JEFFREY
; APPLICANT: KANTOR, JUDITH
; APPLICANT: KUFE, DONALD
; APPLICANT: PANICALI, DENNIS
; APPLICANT: GRITZ, LINDA
; TITLE OF INVENTION: RECOMBINANT POX VIRUS FOR IMMUNIZATION AGAINST MUC1
; FILE REFERENCE: 700953/47113C
; CURRENT APPLICATION NUMBER: US/10/057, 136
; CURRENT FILING DATE: 2002-01-25
; PRIOR APPLICATION NUMBER: 09/366, 670
; PRIOR FILING DATE: 1999-08-03
; PRIOR APPLICATION NUMBER: PCT/US98/03693
; PRIOR FILING DATE: 1998-02-24
; PRIOR APPLICATION NUMBER: 60/038, 253
; PRIOR FILING DATE: 1997-02-24
; NUMBER OF SEQ ID NOS: 20
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 12
; LENGTH: 60
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-057-136-12

Query Match 100.0%; Score 60; DB 5; Length 60;
Best Local Similarity 100.0%; Pred. No. 7.2e-13;
Matches 60; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GGTAAGTACAGCGCCACCCGACATGGCTACGAGCGCTCCGATACGAGACCGCGCCT 60
Db 1 GGTAAGTACAGCGCCACCCGACATGGCTACGAGCGCTCCGATACGAGACCGCGCCT 60

RESULT 2
US-10-057-136-9
; Sequence 9, Application US/10057136
; Publication No. US20030021770A1
; GENERAL INFORMATION:
; APPLICANT: SCHIOM, JEFFREY
; APPLICANT: KANTOR, JUDITH
; APPLICANT: KUFE, DONALD

```
; APPLICANT: PANICALI, DENNIS
; APPLICANT: GRITZ, LINDA
; TITLE OF INVENTION: RECOMBINANT POX VIRUS FOR IMMUNIZATION AGAINST MUC1
; TITLE OF INVENTION: TUMOR-ASSOCIATED ANTIGEN
; FILE REFERENCE: 700953/47113C
; CURRENT FILING DATE: 2002-01-25
; PRIOR APPLICATION NUMBER: US/10/057,136
; PRIOR FILING DATE: 1999-08-03
; PRIOR APPLICATION NUMBER: PCT/US98/03693
; PRIOR FILING DATE: 1998-02-24
; PRIOR APPLICATION NUMBER: 60/038,253
; PRIOR FILING DATE: 1997-02-24
; NUMBER OF SEQ ID NOS: 20
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 9
; LENGTH: 60
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-057-136-9
```

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Query Match      63.7%; Score 38.2; DB 5; Length 60;
Best Local Similarity 78.0%; Pred. No. 0.00012;
Matches 46; Conservative 0; Mismatches 13; Indels 0; Gaps 0;
```

```
QY      1 GGTAGTACAGCGCCACCGCACATGCGCTCCGGATACGAGACCGCGGCC 59
      |||||
DB      1 GGAAGTACCGCTCCACTGCACACGCGGTCAAGCGCCAGACACTGCACCTGCGCC 59
```

```
RESULT 3
US-10-057-136-4
```

```
; Sequence 4, Application US/10057136
; Publication No. US20030021770A1
; GENERAL INFORMATION:
; APPLICANT: SCHIOM, JEFFREY
; APPLICANT: KANTOR, JUDITH
; APPLICANT: KUEF, DONALD
; APPLICANT: PANICALI, DENNIS
; APPLICANT: GRITZ, LINDA
; TITLE OF INVENTION: RECOMBINANT POX VIRUS FOR IMMUNIZATION AGAINST MUC1
; TITLE OF INVENTION: TUMOR-ASSOCIATED ANTIGEN
; FILE REFERENCE: 700953/47113C
; CURRENT APPLICATION NUMBER: US/10/057,136
; CURRENT FILING DATE: 2002-01-25
; PRIOR APPLICATION NUMBER: 09/366,670
; PRIOR FILING DATE: 1999-08-03
; PRIOR APPLICATION NUMBER: PCT/US98/03693
; PRIOR FILING DATE: 1998-02-24
; PRIOR APPLICATION NUMBER: 60/038,253
; PRIOR FILING DATE: 1997-02-24
; NUMBER OF SEQ ID NOS: 20
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 4
; LENGTH: 60
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-057-136-4
```

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Query Match      62.7%; Score 37.6; DB 5; Length 60;
Best Local Similarity 76.7%; Pred. No. 0.00021;
Matches 46; Conservative 0; Mismatches 14; Indels 0; Gaps 0;
```

```
QY      1 GGTAGTACAGCGCCACCGCACATGCGCTCCGGATACGAGACCGCGGCCCT 60
      |||||
DB      1 GGCAGTACTGACACCGCGCACATGGCGTAACATCAGCACTGATACAAGACCTGCACCT 60
```

```
RESULT 4
US-10-057-136-8
; Sequence 8, Application US/10057136
; Publication No. US20030021770A1
; GENERAL INFORMATION:
```

```
; APPLICANT: SCHIOM, JEFFREY
; APPLICANT: KANTOR, JUDITH
; APPLICANT: KUEF, DONALD
; APPLICANT: PANICALI, DENNIS
; APPLICANT: GRITZ, LINDA
; TITLE OF INVENTION: RECOMBINANT POX VIRUS FOR IMMUNIZATION AGAINST MUC1
; TITLE OF INVENTION: TUMOR-ASSOCIATED ANTIGEN
; FILE REFERENCE: 700953/47113C
; CURRENT APPLICATION NUMBER: US/10/057,136
; CURRENT FILING DATE: 2002-01-25
; PRIOR APPLICATION NUMBER: 09/366,670
; PRIOR FILING DATE: 1999-08-03
; PRIOR APPLICATION NUMBER: PCT/US98/03693
; PRIOR FILING DATE: 1998-02-24
; PRIOR APPLICATION NUMBER: 60/038,253
; PRIOR FILING DATE: 1997-02-24
; NUMBER OF SEQ ID NOS: 20
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 8
; LENGTH: 60
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-057-136-8
```

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Query Match      61.0%; Score 36.6; DB 5; Length 60;
Best Local Similarity 76.3%; Pred. No. 0.00049;
Matches 45; Conservative 0; Mismatches 14; Indels 0; Gaps 0;
```

```
QY      1 GGTAGTACAGCGCCACCGCACATGCGCTCCGGATACGAGACCGCGGCC 59
      |||||
DB      1 GGCAGACCGCGCCCGCCGCGACAGGGGTCAAGCGCCGAGACACTGCACCTGCGCC 59
```

```
RESULT 5
US-10-057-136-7
```

```
; Sequence 7, Application US/10057136
; Publication No. US20030021770A1
; GENERAL INFORMATION:
; APPLICANT: SCHIOM, JEFFREY
; APPLICANT: KANTOR, JUDITH
; APPLICANT: KUEF, DONALD
; APPLICANT: PANICALI, DENNIS
; APPLICANT: GRITZ, LINDA
; TITLE OF INVENTION: RECOMBINANT POX VIRUS FOR IMMUNIZATION AGAINST MUC1
; TITLE OF INVENTION: TUMOR-ASSOCIATED ANTIGEN
; FILE REFERENCE: 700953/47113C
; CURRENT APPLICATION NUMBER: US/10/057,136
; CURRENT FILING DATE: 2002-01-25
; PRIOR APPLICATION NUMBER: 09/366,670
; PRIOR FILING DATE: 1999-08-03
; PRIOR APPLICATION NUMBER: PCT/US98/03693
; PRIOR FILING DATE: 1998-02-24
; PRIOR APPLICATION NUMBER: 60/038,253
; PRIOR FILING DATE: 1997-02-24
; NUMBER OF SEQ ID NOS: 20
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 7
; LENGTH: 60
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-057-136-7
```

```
Query Match      54.7%; Score 32.8; DB 5; Length 60;
Best Local Similarity 71.7%; Pred. No. 0.013;
Matches 43; Conservative 0; Mismatches 17; Indels 0; Gaps 0;
```

```
QY      1 GGTAGTACAGCGCCACCGCACATGCGCTCCGGATACGAGACCGCGGCCCT 60
      |||||
DB      1 GGTTCAGCGGCCCTCTGCTCAGGTGTAAATCCGCCCCGGATACCAAGACCGGCCCT 60
```

```
RESULT 6
US-10-057-136-6
```

```
; Sequence 6, Application US/10057136
; Publication No. US20030021770A1
; GENERAL INFORMATION:
; APPLICANT: SCHLOM, JEFFREY
; APPLICANT: KANTOR, JUDITH
; APPLICANT: KUFEL, DONALD
; APPLICANT: PANICALI, DENNIS
; APPLICANT: GRITZ, LINDA
; TITLE OF INVENTION: RECOMBINANT POX VIRUS FOR IMMUNIZATION AGAINST MUC1
; FILE REFERENCE: 700953/47113C
; CURRENT APPLICATION NUMBER: US/10/057,136
; CURRENT FILING DATE: 2002-01-25
; PRIOR FILING DATE: 1999-08-03
; PRIOR APPLICATION NUMBER: PCT/US98/03693
; PRIOR FILING DATE: 1998-02-24
; PRIOR APPLICATION NUMBER: 60/038,253
; PRIOR FILING DATE: 1997-02-24
; NUMBER OF SEQ ID NOS: 20
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 6
; LENGTH: 60
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-057-136-6
```

```
Query Match          48.3%; Score 29; DB 5; Length 60;
Best Local Similarity 71.7%; Pred. No. 0.36;
Matches 38; Conservative 0; Mismatches 15; Indels 0; Gaps 0;
```

```
QY 7 ACAGCGCCACCCGACATGGCGTCAAGAGCGCTCCGGATACGAGACCGCGCC 59
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 7 ACAGCTCCTCCCGCTCATGGGGTACTTCTGCTCCAGATACTCGCCCGCTCC 59
```

```
RESULT 7
US-10-296-734-1165
; Sequence 1165, Application US/10296734
; Publication No. US20040054137A1
; GENERAL INFORMATION:
; APPLICANT: Thompson, Scott A
; APPLICANT: Ramshaw, Ian A
; TITLE OF INVENTION: Synthetic molecules and uses therefor
; FILE REFERENCE: Savine
; CURRENT APPLICATION NUMBER: US/10/296,734
; CURRENT FILING DATE: 2003-08-04
; PRIOR APPLICATION NUMBER: AU PQ7761/00
; PRIOR FILING DATE: 2000-05-26
; NUMBER OF SEQ ID NOS: 1507
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 1165
; LENGTH: 72
; TYPE: DNA
; ORGANISM: Artificial
; FEATURE:
; OTHER INFORMATION: MUC1F segment 8
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (1)..(72)
US-10-296-734-1165
```

```
Query Match          48.0%; Score 28.8; DB 7; Length 72;
Best Local Similarity 69.6%; Pred. No. 0.43;
Matches 39; Conservative 0; Mismatches 17; Indels 0; Gaps 0;
```

```
QY 1 GGTAGTACAGCGCCACCGCACATGGCGTCAAGAGCGCTCCGGATACGAGACCGGC 56
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 16 GGAAGCAACACCCCTCCGCTCAGATGTGACAGCGCTCCCGATACAAAGCCGC 71
```

```
RESULT 8
US-10-635-211-3
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```
; Sequence 3, Application US/10635211
; Publication No. US20050031649A1
; GENERAL INFORMATION:
; APPLICANT: Beijing HYDVAX Biotechnology Co. Ltd
; TITLE OF INVENTION: A recombinant fusion protein comprising BCG heat shock protein 65
; FILE REFERENCE: FP03012US
; CURRENT APPLICATION NUMBER: US/10/635,211
; CURRENT FILING DATE: 2003-08-06
; NUMBER OF SEQ ID NOS: 9
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 3
; LENGTH: 120
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (1)..(120)
US-10-635-211-3
```

```
Query Match          47.7%; Score 28.6; DB 8; Length 120;
Best Local Similarity 67.8%; Pred. No. 0.5;
Matches 40; Conservative 0; Mismatches 19; Indels 0; Gaps 0;
```

```
QY 1 GGTAGTACAGCGCCACCGCACATGGCGTCAAGAGCGCTCCGGATACGAGACCGCGCC 59
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 1 GGTCTACCGCTCCGCGCGGCTCAAGGTGTACTCTGCTCCGACACCCGTCGCTCC 59
```

```
RESULT 9
US-10-635-211-8/c
; Sequence 8, Application US/10635211
; Publication No. US20050031649A1
; GENERAL INFORMATION:
; APPLICANT: Beijing HYDVAX Biotechnology Co. Ltd
; TITLE OF INVENTION: A recombinant fusion protein comprising BCG heat shock protein 65
; FILE REFERENCE: FP03012US
; CURRENT APPLICATION NUMBER: US/10/635,211
; CURRENT FILING DATE: 2003-08-06
; NUMBER OF SEQ ID NOS: 9
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 8
; LENGTH: 162
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Primer
US-10-635-211-8
```

```
Query Match          47.7%; Score 28.6; DB 8; Length 162;
Best Local Similarity 67.8%; Pred. No. 0.49;
Matches 40; Conservative 0; Mismatches 19; Indels 0; Gaps 0;
```

```
QY 1 GGTAGTACAGCGCCACCGCACATGGCGTCAAGAGCGCTCCGGATACGAGACCGCGCC 59
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 138 GGTCTACCGCTCCGCGCGGCTCAAGGTGTACTCTGCTCCGACACCCGTCGCTCC 80
```

```
RESULT 10
US-10-057-136-2
; Sequence 2, Application US/10057136
; Publication No. US20030021770A1
; GENERAL INFORMATION:
; APPLICANT: SCHLOM, JEFFREY
; APPLICANT: KANTOR, JUDITH
; APPLICANT: KUFEL, DONALD
; APPLICANT: PANICALI, DENNIS
; APPLICANT: GRITZ, LINDA
; TITLE OF INVENTION: RECOMBINANT POX VIRUS FOR IMMUNIZATION AGAINST MUC1
; FILE REFERENCE: 700953/47113C
; CURRENT APPLICATION NUMBER: US/10/057,136
```

```
; CURRENT FILING DATE: 2002-01-25
; PRIOR APPLICATION NUMBER: 09/366,670
; PRIOR FILING DATE: 1999-08-03
; PRIOR APPLICATION NUMBER: PCT/US98/03693
; PRIOR FILING DATE: 1998-02-24
; PRIOR APPLICATION NUMBER: 60/038,253
; PRIOR FILING DATE: 1997-02-24
; NUMBER OF SEQ ID NOS: 20
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2
; LENGTH: 60
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-057-136-2
```

```
Query Match      45.7%; Score 27.4; DB 5; Length 60;
Best Local Similarity 69.8%; Pred. No. 1.5;
Matches 37; Conservative 0; Mismatches 16; Indels 0; Gaps 0;
```

```
QY      7 ACAGCGCCACCCGACATGCGCTCAGAGCGCTCCGGATACGAGACCGGCGCC 59
      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db      7 ACCGCCCCCGCCAGCCGAGGTGTCTCGGCCCGACACCGAGCGCGCCCG 59
```

```
RESULT 11
US-10-057-136-11
; Sequence 11, Application US/10057136
; Publication No. US20030021770A1
; GENERAL INFORMATION:
; APPLICANT: SCHLOM, JEFFREY
; APPLICANT: KANTOR, JUDITH
; APPLICANT: KUFE, DONALD
; APPLICANT: PANICALI, DENNIS
; APPLICANT: GRITZ, LINDA
; TITLE OF INVENTION: TUMOR-ASSOCIATED ANTIGEN
; FILE REFERENCE: 700953/47113C
; CURRENT APPLICATION NUMBER: US/10/057,136
; PRIOR FILING DATE: 2002-01-25
; PRIOR APPLICATION NUMBER: 09/366,670
; PRIOR FILING DATE: 1999-08-03
; PRIOR APPLICATION NUMBER: PCT/US98/03693
; PRIOR FILING DATE: 1998-02-24
; PRIOR APPLICATION NUMBER: 60/038,253
; PRIOR FILING DATE: 1997-02-24
; NUMBER OF SEQ ID NOS: 20
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 11
; LENGTH: 60
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-057-136-11
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```
Query Match      45.0%; Score 27; DB 5; Length 60;
Best Local Similarity 66.1%; Pred. No. 2.1;
Matches 39; Conservative 0; Mismatches 20; Indels 0; Gaps 0;
```

```
QY      1 GGTAGTACAGCGCCGACATGCGCTCAGAGCGCTCCGGATACGAGACCGGCGCC 59
      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db      1 GGTTCACGCGACCTTCAGACACGAGTCACTGTGCACCCGACACCGCTCCAGCTCC 59
```

```
RESULT 12
US-10-476-962-28/c
; Sequence 28, Application US/10476962
; Publication No. US20040191904A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Andrew T. Watt
; TITLE OF INVENTION: ANTISENSE MODULATION OF SRC-C EXPRESSION
; FILE REFERENCE: RTS-0222
; CURRENT APPLICATION NUMBER: US/10/476,962
; CURRENT FILING DATE: 2003-11-05
```

```
; PRIOR APPLICATION NUMBER: PRIOR APPLICATION NUMBER: US/09/860,473
; PRIOR FILING DATE: 2001-05-18
; NUMBER OF SEQ ID NOS: 169
; SEQ ID NO 28
; LENGTH: 336
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
US-10-476-962-28
```

```
Query Match      43.7%; Score 26.2; DB 8; Length 336;
Best Local Similarity 67.3%; Pred. No. 3.9;
Matches 37; Conservative 0; Mismatches 18; Indels 0; Gaps 0;
```

```
QY      1 GGTAGTACAGCGCCGACATGCGCTCAGAGCGCTCCGGATACGAGACCGG 55
      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db      107 GAGCTCCAGCGGAGCGGCGAGACGCGCGCTGCGCGCTCCGACTCCAGGCGCG 53
```

```
RESULT 13
US-10-057-136-5
; Sequence 5, Application US/10057136
; Publication No. US20030021770A1
; GENERAL INFORMATION:
; APPLICANT: SCHLOM, JEFFREY
; APPLICANT: KANTOR, JUDITH
; APPLICANT: KUFE, DONALD
; APPLICANT: PANICALI, DENNIS
; APPLICANT: GRITZ, LINDA
; TITLE OF INVENTION: RECOMBINANT POX VIRUS FOR IMMUNIZATION AGAINST MUC1
; FILE REFERENCE: 700953/47113C
; CURRENT APPLICATION NUMBER: US/10/057,136
; PRIOR FILING DATE: 2002-01-25
; PRIOR APPLICATION NUMBER: 09/366,670
; PRIOR FILING DATE: 1999-08-03
; PRIOR APPLICATION NUMBER: PCT/US98/03693
; PRIOR FILING DATE: 1998-02-24
; PRIOR APPLICATION NUMBER: 60/038,253
; PRIOR FILING DATE: 1997-02-24
; NUMBER OF SEQ ID NOS: 20
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 5
; LENGTH: 60
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-057-136-5
```

```
Query Match      43.0%; Score 25.8; DB 5; Length 60;
Best Local Similarity 67.9%; Pred. No. 5.9;
Matches 36; Conservative 0; Mismatches 17; Indels 0; Gaps 0;
```

```
QY      7 ACAGCGCCACCCGACATGCGCTCAGAGCGCTCCGGATACGAGACCGGCGCC 59
      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db      7 ACCGCGCGCGCTGCGACGAGTGAAGTGGCGCGCGCGACACGCGCGCGCTCC 59
```

```
RESULT 14
US-10-057-136-10
; Sequence 10, Application US/10057136
; Publication No. US20030021770A1
; GENERAL INFORMATION:
; APPLICANT: SCHLOM, JEFFREY
; APPLICANT: KANTOR, JUDITH
; APPLICANT: KUFE, DONALD
; APPLICANT: PANICALI, DENNIS
; APPLICANT: GRITZ, LINDA
; TITLE OF INVENTION: RECOMBINANT POX VIRUS FOR IMMUNIZATION AGAINST MUC1
; FILE REFERENCE: 700953/47113C
; CURRENT APPLICATION NUMBER: US/10/057,136
; CURRENT FILING DATE: 2002-01-25
; PRIOR APPLICATION NUMBER: 09/366,670
```



```
/ PRIOR FILING DATE: 1999-08-03
/ PRIOR APPLICATION NUMBER: PCT/US98/03693
/ PRIOR FILING DATE: 1998-02-24
/ PRIOR APPLICATION NUMBER: 60/038,253
/ PRIOR FILING DATE: 1997-02-24
/ NUMBER OF SEQ ID NOS: 20
/ SOFTWARE: PatentIn Ver. 2.1
/ SEQ ID NO 10
/ LENGTH: 60
/ TYPE: DNA
/ ORGANISM: Homo sapiens
US-10-057-136-10
```

```
Query Match      43.0%; Score 25.8; DB 5; Length 60;
Best Local Similarity 67.9%; Pred. No. 5.9;
Matches 36; Conservative 0; Mismatches 17; Indels 0; Gaps 0;
```

```
QY      7 ACAGCGCCACCCGACATGCGCTCAGCAGCGCTCCGGATACGAGACCGCGCC 59
      |||||
Db      7 ACTGCCCTCCGCGCATGTGTGACTCTGACCTCTGACACACAAGCCAGCCCC 59
```

RESULT 15

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US-10-057-136-13
/ Sequence 13, Application US/10057136
/ Publication No. US20030021770A1
/ GENERAL INFORMATION:
/ APPLICANT: SCHLOM, JEFFREY
/ APPLICANT: KANTOR, JUDITH
/ APPLICANT: KUFE, DONALD
/ APPLICANT: PANICALI, DENNIS
/ APPLICANT: GRITZ, LINDA
/ TITLE OF INVENTION: RECOMBINANT POX VIRUS FOR IMMUNIZATION AGAINST MUC1
/ TITLE OF INVENTION: TUMOR-ASSOCIATED ANTIGEN,
/ FILE REFERENCE: 700953/47113C
/ CURRENT APPLICATION NUMBER: US/10/057,136
/ CURRENT FILING DATE: 2002-01-25
/ PRIOR APPLICATION NUMBER: 09/366,670
/ PRIOR FILING DATE: 1999-08-03
/ PRIOR APPLICATION NUMBER: PCT/US98/03693
/ PRIOR FILING DATE: 1998-02-24
/ PRIOR APPLICATION NUMBER: 60/038,253
/ PRIOR FILING DATE: 1997-02-24
/ NUMBER OF SEQ ID NOS: 20
/ SOFTWARE: PatentIn Ver. 2.1
/ SEQ ID NO 13
/ LENGTH: 78
/ TYPE: DNA
/ ORGANISM: Homo sapiens
US-10-057-136-13
```

```
Query Match      43.0%; Score 25.8; DB 5; Length 78;
Best Local Similarity 67.9%; Pred. No. 5.8;
Matches 36; Conservative 0; Mismatches 17; Indels 0; Gaps 0;
```

```
QY      7 ACAGCGCCACCCGACATGCGCTCAGCAGCGCTCCGGATACGAGACCGCGCC 59
      |||||
Db      7 ACCGACCCCCAGCCACGCTGTCACTTCGGCCCCGGACACCAAGCGGCCCC 59
```

Search completed: March 27, 2006, 17:07:44
Job time : 372.4 secs

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GenCore version 5.1.7
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OM nucleic - nucleic search, using sw model

Run on: March 27, 2006, 13:53:26 ; Search time 321.3 Seconds
(without alignments)
744.399 Million cell updates/sec

Title: US-10-057-136A-12
Perfect score: 60
Sequence: 1 GGATGACAGCGCCACCCGC.....CGATACGAGACCGCGCCT 60

Scoring table: IDENTITY NUC
Gapop 10.0 , Gapext 1.0

Searched: 9258654 seqs, 1993127192 residues

Total number of hits satisfying chosen parameters: 14431810

Minimum DB seq length: 0
Maximum DB seq length: 500

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

- Database : Published Applications NA_New:*
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 - 2: /SIDS5/ptodata/2/pubpna/US06_NEW_PUB.seq:*
 - 3: /SIDS5/ptodata/2/pubpna/US07_NEW_PUB.seq:*
 - 4: /SIDS5/ptodata/2/pubpna/PCT_NEW_PUB.seq:*
 - 5: /SIDS5/ptodata/2/pubpna/US09_NEW_PUB.seq:*
 - 6: /SIDS5/ptodata/2/pubpna/US09_NEW_PUB.seq1:*
 - 7: /SIDS5/ptodata/2/pubpna/US10_NEW_PUB.seq:*
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 - 9: /SIDS5/ptodata/2/pubpna/US10_NEW_PUB.seq2:*
 - 10: /SIDS5/ptodata/2/pubpna/US10_NEW_PUB.seq3:*
 - 11: /SIDS5/ptodata/2/pubpna/US11_NEW_PUB.seq:*
 - 12: /SIDS5/ptodata/2/pubpna/US11_NEW_PUB.seq2:*
 - 13: /SIDS5/ptodata/2/pubpna/US11_NEW_PUB.seq3:*
 - 14: /SIDS5/ptodata/2/pubpna/US11_NEW_PUB.seq4:*
 - 15: /SIDS5/ptodata/2/pubpna/US60_NEW_PUB.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	27.4	45.7	328	9	US-10-517-696-41 Sequence 41, Appl
2	26	43.3	468	8	US-10-401-386B-43 Sequence 43, Appl
3	22.6	37.7	483	8	US-10-467-657-1337 Sequence 1337, Ap
4	21.2	35.3	201	8	US-10-995-561-35312 Sequence 35312, A
5	20.6	34.3	110	11	US-11-240-195-25 Sequence 25, Appl
6	20.6	34.3	201	8	US-10-995-561-12880 Sequence 12880, A
7	20.6	34.3	201	8	US-10-995-561-13000 Sequence 13000, A
8	20.6	34.3	201	8	US-10-995-561-13026 Sequence 13026, A
9	20.6	34.3	201	8	US-10-995-561-13086 Sequence 13086, A
10	20.2	33.7	201	8	US-10-995-561-79011 Sequence 79011, A
11	20	33.3	201	8	US-10-995-561-3444 Sequence 3444, Ap
12	20	33.3	201	8	US-10-995-561-3465 Sequence 3465, Ap
13	20	33.3	201	8	US-10-995-561-24655 Sequence 24655, A
14	20	33.3	411	6	US-09-925-065A-498203 Sequence 498203, A
15	20	33.3	481	9	US-10-301-480-69025 Sequence 69025, A
16	20	33.3	481	10	US-10-301-480-682434 Sequence 682434, A
17	19.8	33.0	201	14	US-11-124-367A-19170 Sequence 19170, A
18	19.8	33.0	311	11	US-11-051-720-718 Sequence 718, App

C	19	19.8	33.0	468	6	US-09-925-065A-283267	Sequence 283267,
C	20	19.8	33.0	475	10	US-10-301-480-360224	Sequence 360224,
C	21	19.8	33.0	475	10	US-10-301-480-973633	Sequence 973633,
C	22	19.8	33.0	484	9	US-10-301-480-43449	Sequence 43449, A
C	23	19.8	33.0	484	10	US-10-301-480-656858	Sequence 656858,
C	24	19.6	32.7	63	8	US-10-310-914A-1836	Sequence 1836, Ap
C	25	19.6	32.7	201	8	US-10-995-561-3432	Sequence 3432, Ap
C	26	19.6	32.7	201	8	US-10-995-561-3453	Sequence 3453, Ap
C	27	19.6	32.7	201	8	US-10-995-561-24666	Sequence 24666, A
C	28	19.6	32.7	201	8	US-10-995-561-30595	Sequence 30595, A
C	29	19.6	32.7	201	8	US-10-995-561-83671	Sequence 83671, A
C	30	19.6	32.7	201	8	US-10-995-561-83732	Sequence 83732, A
C	31	19.6	32.7	466	9	US-10-714-887-75	Sequence 75, Appl
C	32	19.4	32.3	385	6	US-09-925-065A-242416	Sequence 242416,
C	33	19.4	32.3	465	6	US-09-925-065A-411810	Sequence 411810,
C	34	19.4	32.3	473	14	US-11-136-527-965	Sequence 965, App
C	35	19.4	32.3	473	14	US-11-136-527-5061	Sequence 5061, Ap
C	36	19.2	32.0	165	8	US-10-802-796-200	Sequence 200, App
C	37	19.2	32.0	283	8	US-10-802-796-284	Sequence 284, App
C	38	19.2	32.0	411	6	US-09-925-065A-478883	Sequence 478883,
C	39	19	31.7	201	14	US-11-124-367A-19171	Sequence 19171, A
C	40	19	31.7	350	8	US-10-802-796-397	Sequence 397, App
C	41	19	31.7	371	14	US-11-091-883-134	Sequence 134, App
C	42	19	31.7	439	6	US-09-925-065A-351105	Sequence 351105,
C	43	19	31.7	439	6	US-09-925-065A-351106	Sequence 351106,
C	44	19	31.7	439	6	US-09-925-065A-351107	Sequence 351107,
C	45	19	31.7	441	8	US-10-802-796-24	Sequence 24, Appl

ALIGNMENTS

RESULT 1
US-10-517-696-41
; Sequence 41, Application US/10517696
; Publication No. US20060051759A1
; GENERAL INFORMATION:
; APPLICANT: diadexus, Inc.
; APPLICANT: Salceda, Susana
; APPLICANT: Macina, Roberto A.
; APPLICANT: Turner, Leah R.
; APPLICANT: Sun, Yongming
; APPLICANT: Liu, Chenghua
; TITLE OF INVENTION: Compositions and Methods Relating to Breast Specific Genes and Prc
; FILE REFERENCE: DEX-0432
; CURRENT APPLICATION NUMBER: US/10/517, 696
; CURRENT FILING DATE: 2004-12-13
; PRIOR APPLICATION NUMBER: US 60/389,327
; PRIOR FILING DATE: 2002-06-14
; NUMBER OF SEQ ID NOS: 171
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 41
; LENGTH: 328
; TYPE: DNA
; ORGANISM: Homo sapien
US-10-517-696-41

Query Match 45.7%; Score 27.4; DB 9; Length 328;
Best Local Similarity 69.8%; Pred. No. 0.88;
Matches 37; Conservative 0; Mismatches 16; Indels 0; Gaps 0;

QY 7 ACAGCGCCACCCGCACATGGCGTTCACGAGCGCTCCGATACGAGACCGCGCC 59
Db 41 ACCGCGCCGCGAGCCACCGGTGTCACTCGGCCCGGACACCAAGCGGCC 93

RESULT 2
US-10-401-386B-43
; Sequence 43, Application US/10401386B
; Publication No. US20050261213A1
; GENERAL INFORMATION:
; APPLICANT: Patrick Branigan
; APPLICANT: Theresa J Goletz

```
/ APPLICANT: David M Knight
/ APPLICANT: Stephen G McCarthy
/ APPLICANT: Bernard J Scallion
/ APPLICANT: Linda A Snyder
/ TITLE OF INVENTION: Nucleic Acid Compositions and Methods
/ FILE REFERENCE: CEN 310CIP
/ CURRENT APPLICATION NUMBER: US/10/401,386B
/ CURRENT FILING DATE: 2003-03-28
/ PRIOR FILING DATE: 2002-09-19
/ PRIOR APPLICATION NUMBER: 10/247,203
/ PRIOR FILING DATE: 2001-10-10
/ NUMBER OF SEQ ID NOS: 81
/ SOFTWARE: FastSeq for Windows Version 4.0
/ SEQ ID NO 43
/ LENGTH: 468
/ TYPE: DNA
/ ORGANISM: Homo sapiens
/ FEATURE:
/ NAME/KEY: CDS
/ LOCATION: (1)...(468)
US-10-401-386B-43
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```
Query Match          43.3%; Score 26; DB 8; Length 468;
Best Local Similarity 70.0%; Pred. No. 2.8;
Matches 35; Conservative 0; Mismatches 15; Indels 0; Gaps 0;
```

```
OY      7 ACAGCGCCACCCGACATGGCGTCACGAGCGCTCCGATACGAGACCGGC 56
      |||||
DB      418 ACCGCCCCCACCACCGTCGTCACCTCGCCCGGACACACGAGCGCGGC 467
```

```
RESULT 3
US-10-467-657-1337
/ Sequence 1337, Application US/10467657
/ Publication No. US20050260581A1
/ GENERAL INFORMATION:
/ APPLICANT: CHIRON SpA
/ APPLICANT: FONTANA Maria Rita
/ APPLICANT: PIZZA Mariagrazia
/ APPLICANT: MASIGNANI Vega
/ APPLICANT: MONACI Elisabetta
/ TITLE OF INVENTION: GONOCOCCAL PROTEINS AND NUCLEIC ACIDS
/ FILE REFERENCE:
/ CURRENT APPLICATION NUMBER: US/10/467,657
/ CURRENT FILING DATE: 2003-08-11
/ PRIOR APPLICATION NUMBER: GB-0103424.8
/ PRIOR FILING DATE: 2001-02-12
/ NUMBER OF SEQ ID NOS: 9218
/ SOFTWARE: SeqWin99, version 1.04
/ SEQ ID NO 1337
/ LENGTH: 483
/ TYPE: DNA
/ ORGANISM: Neisseria gonorrhoeae
US-10-467-657-1337
```

```
Query Match          37.7%; Score 22.6; DB 8; Length 483;
Best Local Similarity 68.9%; Pred. No. 52;
Matches 31; Conservative 0; Mismatches 14; Indels 0; Gaps 0;
```

```
OY      7 ACAGCGCCACCCGACATGGCGTCACGAGCGCTCCGATACGAGA 51
      |||||
DB      314 ACGCGGAAACCGAACAGTGCATCAGAGCTGTGCGCATTCGTA 358
```

```
RESULT 4
US-10-995-561-35312
/ Sequence 35312, Application US/10995561
/ Publication No. US20050272054A1
/ GENERAL INFORMATION:
/ APPLICANT: CARGILL, Michele et al.
/ TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
```

```
/ TITLE OF INVENTION: CARDIOVASCULAR DISORDERS AND DRUG RESPONSE, METHODS OF
/ FILE REFERENCE: CL001559
/ CURRENT APPLICATION NUMBER: US/10/995,561
/ CURRENT FILING DATE: 2004-11-24
/ NUMBER OF SEQ ID NOS: 85702
/ SOFTWARE: FastSeq for Windows Version 4.0
/ SEQ ID NO 35312
/ LENGTH: 201
/ TYPE: DNA
/ ORGANISM: Homo sapiens
US-10-995-561-35312
```

```
Query Match          35.3%; Score 21.2; DB 8; Length 201;
Best Local Similarity 64.0%; Pred. No. 1.8e+02;
Matches 32; Conservative 0; Mismatches 18; Indels 0; Gaps 0;
```

```
OY      11 CGCCACCCGACATGGCGTCACGAGCGCTCCGATACGAGACCGGCGCCT 60
      |||||
DB      87 CGCCCGCGCGCTTMTGTCTCCGCGGCTGCTACGTAACCGGCGCT 136
```

```
RESULT 5
US-11-240-195-25/c
/ Sequence 25, Application US/11240195
/ Publication No. US20060057140A1
/ GENERAL INFORMATION:
/ APPLICANT: Feuerstein, Gloria Z.
/ TITLE OF INVENTION: ANTICOAGULANT AGENTS USEFUL IN TREATMENT
/ FILE REFERENCE: P50816-1
/ CURRENT APPLICATION NUMBER: US/11/240,195
/ CURRENT FILING DATE: 2005-09-30
/ PRIOR APPLICATION NUMBER: US/10/430,176
/ PRIOR FILING DATE: 2003-05-05
/ PRIOR APPLICATION NUMBER: 09/817,960
/ PRIOR FILING DATE: 2001-03-27
/ PRIOR APPLICATION NUMBER: 09/359,202
/ PRIOR FILING DATE: 1999-07-22
/ PRIOR APPLICATION NUMBER: 60/095,714
/ PRIOR FILING DATE: 1998-08-07
/ PRIOR APPLICATION NUMBER: 10/051,852
/ PRIOR FILING DATE: 2002-01-17
/ PRIOR APPLICATION NUMBER: 09/344,050
/ PRIOR FILING DATE: 1999-06-25
/ PRIOR APPLICATION NUMBER: 08/783,853
/ PRIOR FILING DATE: 1997-01-06
/ PRIOR APPLICATION NUMBER: 60/010,108
/ PRIOR FILING DATE: 1996-01-17
/ PRIOR APPLICATION NUMBER: 60/029,119
/ PRIOR FILING DATE: 1996-10-24
/ NUMBER OF SEQ ID NOS: 111
/ SOFTWARE: FastSeq for Windows Version 4.0
/ SEQ ID NO 25
/ LENGTH: 110
/ TYPE: DNA
/ ORGANISM: Homo sapiens
US-11-240-195-25
```

```
Query Match          34.3%; Score 20.6; DB 11; Length 110;
Best Local Similarity 59.3%; Pred. No. 3.2e+02;
Matches 35; Conservative 0; Mismatches 24; Indels 0; Gaps 0;
```

```
OY      1 GGTAGTACAGCGCCACCCGACATGGCGTCACGAGCGCTCCGATACGAGACCGGCGC 59
      |||||
DB      59 GATGATACAGCTCCATCCCATGTGAGGTCTGTGTGCTCAGAATTGATGAGCTCTCC 1
```

```
RESULT 6
US-10-995-561-12880
/ Sequence 12880, Application US/10995561
/ Publication No. US20050272054A1
/ GENERAL INFORMATION:
```

```
; APPLICANT: CARGILL, Michele et al.
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; TITLE OF INVENTION: CARDIOVASCULAR DISORDERS AND DRUG RESPONSE, METHODS OF
; TITLE OF INVENTION: DETECTION AND USES THEREOF
; FILE REFERENCE: CL001559
; CURRENT APPLICATION NUMBER: US/10/995,561
; CURRENT FILING DATE: 2004-11-24
; NUMBER OF SEQ ID NOS: 85702
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 12880
; LENGTH: 201
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-995-561-12880
```

```
Query Match          34.3%; Score 20.6; DB 8; Length 201;
Best Local Similarity 59.3%; Pred. No. 3.1e+02;
Matches 35; Conservative 0; Mismatches 24; Indels 0; Gaps 0;
```

```
QY      2 GTAGTACAGCGCCACCGCAGATGCGCTCAGAGCGCTCCGATACGAGACCGCGCCT 60
      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db      18 GCAGGACGGCTTCACAGACAGCGGGGCGCTCTGCGCTCTGTACAACTCCCCCACCCT 76
```

RESULT 7

```
US-10-995-561-13000
; Sequence 13000, Application US/10995561
; Publication No. US20050272054A1
; GENERAL INFORMATION:
```

```
; APPLICANT: CARGILL, Michele et al.
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; TITLE OF INVENTION: CARDIOVASCULAR DISORDERS AND DRUG RESPONSE, METHODS OF
; TITLE OF INVENTION: DETECTION AND USES THEREOF
; FILE REFERENCE: CL001559
; CURRENT APPLICATION NUMBER: US/10/995,561
; CURRENT FILING DATE: 2004-11-24
; NUMBER OF SEQ ID NOS: 85702
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 13000
; LENGTH: 201
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-995-561-13000
```

```
Query Match          34.3%; Score 20.6; DB 8; Length 201;
Best Local Similarity 59.3%; Pred. No. 3.1e+02;
Matches 35; Conservative 0; Mismatches 24; Indels 0; Gaps 0;
```

```
QY      2 GTAGTACAGCGCCACCGCAGATGCGCTCAGAGCGCTCCGATACGAGACCGCGCCT 60
      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db      18 GCAGGACGGCTTCACAGACAGCGGGGCGCTCTGCGCTCTGTACAACTCCCCCACCCT 76
```

RESULT 8

```
US-10-995-561-13026
; Sequence 13026, Application US/10995561
; Publication No. US20050272054A1
; GENERAL INFORMATION:
```

```
; APPLICANT: CARGILL, Michele et al.
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; TITLE OF INVENTION: CARDIOVASCULAR DISORDERS AND DRUG RESPONSE, METHODS OF
; TITLE OF INVENTION: DETECTION AND USES THEREOF
; FILE REFERENCE: CL001559
; CURRENT APPLICATION NUMBER: US/10/995,561
; CURRENT FILING DATE: 2004-11-24
; NUMBER OF SEQ ID NOS: 85702
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 13026
; LENGTH: 201
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-995-561-13026
```

```
Query Match          34.3%; Score 20.6; DB 8; Length 201;
Best Local Similarity 59.3%; Pred. No. 3.1e+02;
Matches 35; Conservative 0; Mismatches 24; Indels 0; Gaps 0;

QY      2 GTAGTACAGCGCCACCGCAGATGCGCTCAGAGCGCTCCGATACGAGACCGCGCCT 60
      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db      18 GCAGGACGGCTTCACAGACAGCGGGGCGCTCTGCGCTCTGTACAACTCCCCCACCCT 76
```

RESULT 9

```
US-10-995-561-13086
; Sequence 13086, Application US/10995561
; Publication No. US20050272054A1
; GENERAL INFORMATION:
```

```
; APPLICANT: CARGILL, Michele et al.
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; TITLE OF INVENTION: CARDIOVASCULAR DISORDERS AND DRUG RESPONSE, METHODS OF
; TITLE OF INVENTION: DETECTION AND USES THEREOF
; FILE REFERENCE: CL001559
; CURRENT APPLICATION NUMBER: US/10/995,561
; CURRENT FILING DATE: 2004-11-24
; NUMBER OF SEQ ID NOS: 85702
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 13086
; LENGTH: 201
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-995-561-13086
```

```
Query Match          34.3%; Score 20.6; DB 8; Length 201;
Best Local Similarity 59.3%; Pred. No. 3.1e+02;
Matches 35; Conservative 0; Mismatches 24; Indels 0; Gaps 0;
```

```
QY      2 GTAGTACAGCGCCACCGCAGATGCGCTCAGAGCGCTCCGATACGAGACCGCGCCT 60
      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db      18 GCAGGACGGCTTCACAGACAGCGGGGCGCTCTGCGCTCTGTACAACTCCCCCACCCT 76
```

RESULT 10

```
US-10-995-561-79011
; Sequence 79011, Application US/10995561
; Publication No. US20050272054A1
; GENERAL INFORMATION:
```

```
; APPLICANT: CARGILL, Michele et al.
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; TITLE OF INVENTION: CARDIOVASCULAR DISORDERS AND DRUG RESPONSE, METHODS OF
; TITLE OF INVENTION: DETECTION AND USES THEREOF
; FILE REFERENCE: CL001559
; CURRENT APPLICATION NUMBER: US/10/995,561
; CURRENT FILING DATE: 2004-11-24
; NUMBER OF SEQ ID NOS: 85702
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 79011
; LENGTH: 201
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-995-561-79011
```

```
Query Match          33.7%; Score 20.2; DB 8; Length 201;
Best Local Similarity 75.8%; Pred. No. 4.3e+02;
Matches 25; Conservative 0; Mismatches 8; Indels 0; Gaps 0;
```

```
QY      7 ACAGCGCCACCGCAGATGCGCTCAGAGCGCT 39
      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db      155 ACAGCACCATTCCTCAATGCGCTCAGAGGCGCT 187
```

RESULT 11

```
US-10-995-561-3444/c
; Sequence 3444, Application US/10995561
; Publication No. US20050272054A1
; GENERAL INFORMATION:
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```
; APPLICANT: CARGILL, Michele et al.
```

```
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; TITLE OF INVENTION: CARDIOVASCULAR DISORDERS AND DRUG RESPONSE, METHODS OF
; TITLE OF INVENTION: DETECTION AND USES THEREOF
; FILE REFERENCE: CL001559
; CURRENT APPLICATION NUMBER: US/10/995,561
; CURRENT FILING DATE: 2004-11-24
; NUMBER OF SEQ ID NOS: 85702
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 3444
; LENGTH: 201
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-995-561-3444

Query Match      33.3%; Score 20; DB 8; Length 201;
Best Local Similarity 61.5%; Pred. No. 5.1e+02;
Matches 32; Conservative 0; Mismatches 20; Indels 0; Gaps 0;

QY      6 TACAGCGCCACCGCACATGGCGTCACGAGCGCTCCGATACGAGACCGGCG 57
Db      159 TCCAAGGCCCCCAACACCTGGAAGCTCCAGCCCTCCGACTCCGAGTCTCTCCG 108

RESULT 12
US-10-995-561-3465/c
; Sequence 3465, Application US/10995561
; Publication No. US20050272054A1
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele et al.
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; TITLE OF INVENTION: CARDIOVASCULAR DISORDERS AND DRUG RESPONSE, METHODS OF
; TITLE OF INVENTION: DETECTION AND USES THEREOF
; FILE REFERENCE: CL001559
; CURRENT APPLICATION NUMBER: US/10/995,561
; CURRENT FILING DATE: 2004-11-24
; NUMBER OF SEQ ID NOS: 85702
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 3465
; LENGTH: 201
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-995-561-3465

Query Match      33.3%; Score 20; DB 8; Length 201;
Best Local Similarity 61.5%; Pred. No. 5.1e+02;
Matches 32; Conservative 0; Mismatches 20; Indels 0; Gaps 0;

QY      6 TACAGCGCCACCGCACATGGCGTCACGAGCGCTCCGATACGAGACCGGCG 57
Db      159 TCCAAGGCCCCCAACACCTGGAAGCTCCAGCCCTCCGACTCCGAGTCTCTCCG 108

RESULT 13
US-10-995-561-24655/c
; Sequence 24655, Application US/10995561
; Publication No. US20050272054A1
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele et al.
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; TITLE OF INVENTION: CARDIOVASCULAR DISORDERS AND DRUG RESPONSE, METHODS OF
; TITLE OF INVENTION: DETECTION AND USES THEREOF
; FILE REFERENCE: CL001559
; CURRENT APPLICATION NUMBER: US/10/995,561
; CURRENT FILING DATE: 2004-11-24
; NUMBER OF SEQ ID NOS: 85702
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 24655
; LENGTH: 201
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-995-561-24655

Query Match      33.3%; Score 20; DB 8; Length 201;
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Best Local Similarity 61.5%; Pred. No. 5.1e+02;
Matches 32; Conservative 0; Mismatches 20; Indels 0; Gaps 0;

QY      6 TACAGCGCCACCGCACATGGCGTCACGAGCGCTCCGATACGAGACCGGCG 57
Db      159 TCCAAGGCCCCCAACACCTGGAAGCTCCAGCCCTCCGACTCCGAGTCTCTCCG 108

RESULT 14
US-09-925-065A-498203
; Sequence 498203, Application US/09925065A
; Publication No. US20040181048A1
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single
; TITLE OF INVENTION: Nucleotide Polymorphisms in the Human Genome
; FILE REFERENCE: 108827.135
; CURRENT APPLICATION NUMBER: US/09/925,065A
; CURRENT FILING DATE: 2001-08-08
; PRIOR APPLICATION NUMBER: US 60/243,096
; PRIOR FILING DATE: 2000-10-24
; PRIOR APPLICATION NUMBER: US 60/252,147
; PRIOR FILING DATE: 2000-11-20
; PRIOR APPLICATION NUMBER: US 60/250,092
; PRIOR FILING DATE: 2000-11-30
; PRIOR APPLICATION NUMBER: US 60/261,766
; PRIOR FILING DATE: 2001-01-16
; PRIOR APPLICATION NUMBER: US 60/289,846
; NUMBER OF SEQ ID NOS: 957086
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 498203
; LENGTH: 411
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-925-065A-498203

Query Match      33.3%; Score 20; DB 6; Length 411;
Best Local Similarity 61.5%; Pred. No. 4.8e+02;
Matches 32; Conservative 0; Mismatches 20; Indels 0; Gaps 0;

QY      9 AGCGCCACCGCACATGGCGTCACGAGCGCTCCGATACGAGACCGGCGCT 60
Db      207 AGAGCAATCCACCTTGCCGTTAAGATCTATTTTGAAGTGAGACAGCGGCTT 258

RESULT 15
US-10-301-480-69025
; Sequence 69025, Application US/10301480
; Publication No. US20060057564A1
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single Nucleotide Polymorphisms
; TITLE OF INVENTION: in the Human Genome
; FILE REFERENCE: 108827.137
; CURRENT APPLICATION NUMBER: US/10/301,480
; CURRENT FILING DATE: 2002-11-21
; PRIOR APPLICATION NUMBER: US 10/215,598
; PRIOR FILING DATE: 2002-08-09
; PRIOR APPLICATION NUMBER: US 60/311,695
; PRIOR FILING DATE: 2001-08-10
; NUMBER OF SEQ ID NOS: 1226818
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 69025
; LENGTH: 481
; TYPE: DNA
; ORGANISM: Homo sapien
US-10-301-480-69025

Query Match      33.3%; Score 20; DB 9; Length 481;
Best Local Similarity 61.5%; Pred. No. 4.8e+02;
Matches 32; Conservative 0; Mismatches 20; Indels 0; Gaps 0;
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GenCore version 5.1.7
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OM nucleic - nucleic search, using sw model

Run on: March 27, 2006, 13:53:26 ; Search time 321.3 Seconds
(without alignments)
744.399 Million cell updates/sec

Title: US-10-057-136A-11
Perfect score: 60
Sequence: 1 GGTTCAACGGCAGCTCCAGC.....CCGACACCCGTCAGCTCCG 60

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 9258654 seqs, 1993127192 residues

Total number of hits satisfying chosen parameters: 14431810

Minimum DB seq length: 0
Maximum DB seq length: 500

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published Applications NA New:*

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- 2: /SIDS5/ptodata/2/pubpna/US06_NEW_PUB.seq:*
- 3: /SIDS5/ptodata/2/pubpna/US07_NEW_PUB.seq:*
- 4: /SIDS5/ptodata/2/pubpna/PCT_NEW_PUB.seq:*
- 5: /SIDS5/ptodata/2/pubpna/US09_NEW_PUB.seq:*
- 6: /SIDS5/ptodata/2/pubpna/US09_NEW_PUB.seq1:*
- 7: /SIDS5/ptodata/2/pubpna/US10_NEW_PUB.seq:*
- 8: /SIDS5/ptodata/2/pubpna/US10_NEW_PUB.seq1:*
- 9: /SIDS5/ptodata/2/pubpna/US10_NEW_PUB.seq2:*
- 10: /SIDS5/ptodata/2/pubpna/US10_NEW_PUB.seq3:*
- 11: /SIDS5/ptodata/2/pubpna/US11_NEW_PUB.seq:*
- 12: /SIDS5/ptodata/2/pubpna/US11_NEW_PUB.seq2:*
- 13: /SIDS5/ptodata/2/pubpna/US11_NEW_PUB.seq3:*
- 14: /SIDS5/ptodata/2/pubpna/US11_NEW_PUB.seq4:*
- 15: /SIDS5/ptodata/2/pubpna/US60_NEW_PUB.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB	ID	Description
1	34.4	57.3	328	9	US-10-517-696-41	Sequence 41, Appl
2	33.6	56.0	468	8	US-10-401-386B-43	Sequence 43, Appl
3	25	41.7	463	6	US-09-925-065A-521200	Sequence 521200,
4	23.4	39.0	201	8	US-10-995-561-12170	Sequence 12170, A
5	23.4	39.0	201	8	US-10-995-561-12222	Sequence 12222, A
6	23.4	39.0	201	8	US-10-995-561-12275	Sequence 12275, A
7	23.4	39.0	201	8	US-10-995-561-12328	Sequence 12328, A
8	23.4	39.0	201	8	US-10-995-561-62387	Sequence 62387, A
9	23	38.3	201	8	US-10-995-561-12144	Sequence 12144, A
10	23	38.3	201	8	US-10-995-561-12180	Sequence 12180, A
11	23	38.3	201	8	US-10-995-561-12232	Sequence 12232, A
12	23	38.3	201	8	US-10-995-561-12285	Sequence 12285, A
13	23	38.3	201	8	US-10-995-561-12338	Sequence 12338, A
14	23	38.3	201	8	US-10-995-561-62404	Sequence 62404, A
15	22.2	37.0	200	14	US-11-098-686-1698	Sequence 1698, Ap
16	22.2	37.0	201	8	US-10-995-561-79645	Sequence 79645, A
17	21.8	36.3	201	14	US-11-124-367A-8478	Sequence 8478, Ap
18	21.8	36.3	201	14	US-11-124-367A-8479	Sequence 8479, Ap

19	21.8	36.3	400	6	US-09-925-065A-414926	Sequence 414926,
20	21.8	36.3	403	10	US-10-301-480-480657	Sequence 480657,
21	21.8	36.3	403	10	US-10-301-480-1094066	Sequence 1094066,
22	21.8	36.3	458	6	US-09-925-065A-495312	Sequence 495312,
23	21.6	36.0	434	14	US-11-108-172-476	Sequence 476, App
24	21.6	36.0	461	6	US-09-925-065A-255276	Sequence 255276,
25	21.6	36.0	464	10	US-10-301-480-334092	Sequence 334092,
26	21.6	36.0	464	10	US-10-301-480-947501	Sequence 947501,
27	21.4	35.7	468	6	US-09-925-065A-10005	Sequence 10005, A
28	21.4	35.7	468	6	US-09-925-065A-10006	Sequence 10006, A
29	21.4	35.7	468	6	US-09-925-065A-10007	Sequence 10007, A
30	21.4	35.7	468	9	US-10-301-480-111242	Sequence 111242,
31	21.4	35.7	468	9	US-10-301-480-111243	Sequence 111243,
32	21.4	35.7	468	9	US-10-301-480-111244	Sequence 111244,
33	21.4	35.7	468	10	US-10-301-480-724651	Sequence 724651,
34	21.4	35.7	468	10	US-10-301-480-724652	Sequence 724652,
35	21.4	35.7	468	10	US-10-301-480-724653	Sequence 724653,
36	21.2	35.3	198	14	US-11-172-536-9	Sequence 9, Appli
37	21	35.0	201	8	US-10-995-561-29883	Sequence 29883, A
38	21	35.0	201	8	US-10-995-561-68729	Sequence 68729, A
39	21	35.0	201	14	US-11-124-367A-2036	Sequence 2036, Ap
40	21	35.0	201	14	US-11-124-367A-2066	Sequence 2066, Ap
41	21	35.0	201	14	US-11-124-367A-18649	Sequence 18649, A
42	21	35.0	483	6	US-09-925-065A-948698	Sequence 948698,
43	21	35.0	483	14	US-11-092-988-49	Sequence 49, Appl
44	20.8	34.7	201	8	US-10-995-561-45482	Sequence 45482, A
45	20.8	34.7	414	9	US-10-301-480-14764	Sequence 14764, A

ALIGNMENTS

RESULT 1
US-10-517-696-41
; Sequence 41, Application US/10517696
; Publication No. US20060051759A1
; GENERAL INFORMATION:
; APPLICANT: Salceda, Susana
; APPLICANT: Macina, Roberto A.
; APPLICANT: Turner, Leah R.
; APPLICANT: Sun, Yongming
; APPLICANT: Liu, Chenghua
; TITLE OF INVENTION: Compositions and Methods Relating to Breast Specific Genes and Prc
; FILE REFERENCE: DEX-0432
; CURRENT APPLICATION NUMBER: US/10/517, 696
; CURRENT FILING DATE: 2004-12-13
; PRIOR APPLICATION NUMBER: US 60/389,327
; PRIOR FILING DATE: 2002-06-14
; NUMBER OF SEQ ID NOS: 171
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 41
; LENGTH: 328
; TYPE: DNA
; ORGANISM: Homo sapien
US-10-517-696-41
Query Match 57.3%; Score 34.4; DB 9; Length 328;
Best local Similarity 73.3%; Pred. No. 0.034;
Matches 44; Conservative 0; Mismatches 16; Indels 0; Gaps 0;
OY 1 GGTTCAACGGCAGCTCCAGCAGCAGGAGTCTGCACCCGACACCCGTCAGCTCCG 60
Db 95 GGTTCAACGGCAGCTCCAGCAGCAGGAGTCTGCACCTCGGCCCGACACACGAGCGCCCG 154
RESULT 2
US-10-401-386B-43
; Sequence 43, Application US/10401386B
; Publication No. US20050261213A1
; GENERAL INFORMATION:
; APPLICANT: Patrick Branigan
; APPLICANT: Theresa J Goletz

```
; APPLICANT: David M Knight
; APPLICANT: Stephen G McCarthy
; APPLICANT: Bernard J Scallion
; APPLICANT: Linda A Snyder
; TITLE OF INVENTION: Nucleic Acid Compositions and Methods
; TITLE OF INVENTION: for Use
; FILE REFERENCE: CEN 310CIP
; CURRENT APPLICATION NUMBER: US/10/401,386B
; CURRENT FILING DATE: 2003-03-28
; PRIOR APPLICATION NUMBER: 10/247,203
; PRIOR FILING DATE: 2002-09-19
; PRIOR APPLICATION NUMBER: 60/328,371
; PRIOR FILING DATE: 2001-10-10
; NUMBER OF SEQ ID NOS: 81
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 43
; LENGTH: 468
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (1)...(468)
US-10-401-386B-43
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Best Local Similarity 75.0%; Pred. No. 0.063;
Matches 42; Conservative 0; Mismatches 14; Indels 0; Gaps 0;
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QY      1 GGTTCACGGCAGCTCCAGACAGGAGTCACTGTGCACCCGACACCCGTCGAC 56
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DB      412 GGCTCCACCGCCCCCGCCAGCCAGGTGTCACTCGCGCCCGGACACAGCGCGGC 467
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RESULT 3
US-09-925-065A-521200
; Sequence 521200, Application US/09925065A
; Publication No. US20040181048A1
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single
; TITLE OF INVENTION: Nucleotide Polymorphisms in the Human Genome
; FILE REFERENCE: 108827.135
; CURRENT APPLICATION NUMBER: US/09/925,065A
; CURRENT FILING DATE: 2001-08-08
; PRIOR APPLICATION NUMBER: US 60/243,096
; PRIOR FILING DATE: 2000-10-24
; PRIOR APPLICATION NUMBER: US 60/252,147
; PRIOR FILING DATE: 2000-11-20
; PRIOR APPLICATION NUMBER: US 60/250,092
; PRIOR FILING DATE: 2000-11-30
; PRIOR APPLICATION NUMBER: US 60/261,766
; PRIOR FILING DATE: 2001-01-16
; PRIOR APPLICATION NUMBER: US 60/289,846
; PRIOR FILING DATE: 2001-05-09
; NUMBER OF SEQ ID NOS: 957086
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 521200
; LENGTH: 463
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-925-065A-521200
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Query Match          41.7%; Score 25; DB 6; Length 463;
Best Local Similarity 66.7%; Pred. No. 46;
Matches 34; Conservative 1; Mismatches 16; Indels 0; Gaps 0;
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```
QY      1 GGTTCACGGCAGCTCCAGACAGGAGTCACTGTGCACCCGACACCCGTCG 51
          ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
DB      38 GGGTCCCTGCGCGCTCCACACGAGCTCTCTTGTGACCCCGACACCTGT 88
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RESULT 4
US-10-995-561-12170
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; Sequence 12170, Application US/10995561
; Publication No. US20050272054A1
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele et al.
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; TITLE OF INVENTION: CARDIOVASCULAR DISORDERS AND DRUG RESPONSE, METHODS OF
; TITLE OF INVENTION: DETECTION AND USES THEREOF
; FILE REFERENCE: CL001559
; CURRENT APPLICATION NUMBER: US/10/995,561
; CURRENT FILING DATE: 2004-11-24
; NUMBER OF SEQ ID NOS: 85702
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 12170
; LENGTH: 201
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-995-561-12170
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```
Query Match          39.0%; Score 23.4; DB 8; Length 201;
Best Local Similarity 63.2%; Pred. No. 1.6e+02;
Matches 36; Conservative 0; Mismatches 21; Indels 0; Gaps 0;
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```
QY      3 TTCACGGCAGCTCCAGACAGGAGTCACTGTGCACCCGACACCCGTCGACTCC 59
          ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
DB      15 TTCTACCCGAGCTCCACCACTGCACTCCCTAAAGAACTCCTGCACCTCCAGCTCC 71
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```
RESULT 5
US-10-995-561-12222
; Sequence 12222, Application US/10995561
; Publication No. US20050272054A1
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele et al.
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; TITLE OF INVENTION: CARDIOVASCULAR DISORDERS AND DRUG RESPONSE, METHODS OF
; TITLE OF INVENTION: DETECTION AND USES THEREOF
; FILE REFERENCE: CL001559
; CURRENT APPLICATION NUMBER: US/10/995,561
; CURRENT FILING DATE: 2004-11-24
; NUMBER OF SEQ ID NOS: 85702
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 12222
; LENGTH: 201
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-995-561-12222
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Query Match          39.0%; Score 23.4; DB 8; Length 201;
Best Local Similarity 63.2%; Pred. No. 1.6e+02;
Matches 36; Conservative 0; Mismatches 21; Indels 0; Gaps 0;
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QY      3 TTCACGGCAGCTCCAGACAGGAGTCACTGTGCACCCGACACCCGTCGACTCC 59
          ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
DB      15 TTCTACCCGAGCTCCACCACTGCACTCCCTAAAGAACTCCTGCACCTCCAGCTCC 71
```

```
RESULT 6
US-10-995-561-12275
; Sequence 12275, Application US/10995561
; Publication No. US20050272054A1
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele et al.
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; TITLE OF INVENTION: CARDIOVASCULAR DISORDERS AND DRUG RESPONSE, METHODS OF
; TITLE OF INVENTION: DETECTION AND USES THEREOF
; FILE REFERENCE: CL001559
; CURRENT APPLICATION NUMBER: US/10/995,561
; CURRENT FILING DATE: 2004-11-24
; NUMBER OF SEQ ID NOS: 85702
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 12275
; LENGTH: 201
; TYPE: DNA
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GenCore version 5.1.7
Copyright (c) 1993 - 2006 Bioceleration Ltd.

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Searched: 9793542 seqs, 4134689005 residues

Total number of hits satisfying chosen parameters: 14089978

Minimum DB seq length: 0
Maximum DB seq length: 500

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published Applications NA Main:*

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10: /cgn2_6/ptodata/1/pubpna/US11_PUBCOMB.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	length	DB ID	Description
1	60	100.0	60	5	US-10-057-136-11 Sequence 11, Appli
2	40.8	68.0	120	8	US-10-635-211-3 Sequence 3, Appli
3	40.8	68.0	162	8	US-10-635-211-8 Sequence 8, Appli
4	38.2	63.7	60	5	US-10-057-136-5 Sequence 5, Appli
5	36.6	61.0	60	5	US-10-057-136-6 Sequence 6, Appli
6	36	60.0	60	5	US-10-057-136-2 Sequence 2, Appli
7	36	60.0	78	5	US-10-057-136-13 Sequence 13, Appli
8	33.4	55.7	60	5	US-10-057-136-7 Sequence 7, Appli
9	32.2	53.7	164	3	US-09-864-864-258 Sequence 258, App
10	31.8	53.0	60	5	US-10-057-136-10 Sequence 10, Appli
11	30.6	51.0	60	5	US-10-057-136-8 Sequence 8, Appli
12	30.4	50.7	60	5	US-10-057-136-14 Sequence 14, Appli
13	29	48.3	60	5	US-10-057-136-4 Sequence 4, Appli
14	29	48.3	60	5	US-10-057-136-9 Sequence 9, Appli
15	28	46.7	93	7	US-10-471-607-4 Sequence 4, Appli
16	28	46.7	157	7	US-10-471-607-6 Sequence 6, Appli
17	27	45.0	60	5	US-10-057-136-12 Sequence 12, Appli
18	25	41.7	93	7	US-10-471-607-3 Sequence 3, Appli
19	25	41.7	156	7	US-10-471-607-5 Sequence 5, Appli
20	25	41.7	157	7	US-10-471-607-9 Sequence 9, Appli
21	25	41.7	463	4	US-09-925-065A-521200 Sequence 521200,
22	24.4	40.7	297	7	US-10-437-963-50884 Sequence 50884, A
23	24	40.0	364	3	US-09-918-995-29996 Sequence 29996, A

24	23.8	39.7	365	7	US-10-437-963-97774 Sequence 97774, A
25	23.8	39.7	478	3	US-09-918-995-29182 Sequence 29182, A
26	23.8	39.7	491	3	US-09-918-995-35457 Sequence 35457, A
27	23.6	39.3	438	7	US-10-437-963-90573 Sequence 90573, A
28	23.4	39.0	201	8	US-10-741-600-16890 Sequence 16890, A
29	23.4	39.0	201	8	US-10-741-600-16921 Sequence 16921, A
30	23.4	39.0	201	8	US-10-741-600-16952 Sequence 16952, A
31	23.4	39.0	201	8	US-10-741-600-16983 Sequence 16983, A
32	23.4	39.0	201	8	US-10-741-600-58333 Sequence 58333, A
33	23.4	39.0	399	6	US-10-259-165-363 Sequence 363, App
34	23.4	39.0	399	6	US-10-260-238-4727 Sequence 4727, App
35	23.4	39.0	402	6	US-10-259-165-25 Sequence 25, Appli
36	23.4	39.0	402	6	US-10-259-165-257 Sequence 257, App
37	23.4	39.0	402	7	US-10-260-238-210 Sequence 210, App
38	23.2	38.7	430	8	US-10-425-115-115596 Sequence 115596,
39	23	38.3	251	3	US-09-104-750-17 Sequence 17, Appli
40	23	38.3	416	7	US-10-424-599-136290 Sequence 136290,
41	22.8	38.0	241	7	US-10-437-963-31962 Sequence 31962, A
42	22.8	38.0	390	7	US-10-437-963-49418 Sequence 49418, A
43	22.6	37.7	425	3	US-09-918-995-35000 Sequence 35000, A
44	22.4	37.3	300	8	US-10-425-115-176071 Sequence 176071,
45	22.4	37.3	318	7	US-10-437-963-1355 Sequence 1355, Ap

ALIGNMENTS

RESULT 1
US-10-057-136-11
; Sequence 11, Application US/10057136
; Publication No. US20030021770A1
; GENERAL INFORMATION:
; APPLICANT: SCHIOM, JEFFREY
; APPLICANT: KANTOR, JUDITH
; APPLICANT: KUBE, DONALD
; APPLICANT: PANICALI, DENNIS
; APPLICANT: GRITZ, LINDA
; TITLE OF INVENTION: RECOMBINANT POX VIRUS FOR IMMUNIZATION AGAINST MUC1
; TITLE OF INVENTION: TUMOR-ASSOCIATED ANTIGEN
; FILE REFERENCE: 700953/47113C
; CURRENT APPLICATION NUMBER: US/10/057,136
; CURRENT FILING DATE: 2002-01-25
; PRIOR APPLICATION NUMBER: 09/366,670
; PRIOR FILING DATE: 1999-08-03
; PRIOR APPLICATION NUMBER: PCT/US98/03693
; PRIOR FILING DATE: 1998-02-24
; PRIOR APPLICATION NUMBER: 60/038,253
; PRIOR FILING DATE: 1997-02-24
; NUMBER OF SEQ ID NOS: 20
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 11
; LENGTH: 60
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-057-136-11

Query Match 100.0%; Score 60; DB 5; Length 60;
Best Local Similarity 100.0%; Pred. No. 1.8e-11;
Matches 60; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

CY 1 GGTTCAACGGCAGCTCCAGCAGGAGTCACTGTGCACCCGACACCCGTCGACTCCG 60
Db 1 GGTTCAACGGCAGCTCCAGCAGGAGTCACTGTGCACCCGACACCCGTCGACTCCG 60

RESULT 2
US-10-635-211-3
; Sequence 3, Application US/10635211
; Publication No. US20050031649A1
; GENERAL INFORMATION:
; APPLICANT: Beijing HYDVAX Biotechnology Co. Ltd
; TITLE OF INVENTION: A recombinant fusion protein comprising BCG heat shock protein 65
; TITLE OF INVENTION: and the epitope of MUC1


```
; FILE REFERENCE: PP03012US
; CURRENT APPLICATION NUMBER: US/10/635,211
; CURRENT FILING DATE: 2003-08-06
; NUMBER OF SEQ ID NOS: 9
; SOFTWARE: Patentln version 3.2
; SEQ ID NO 3
; LENGTH: 120
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (1)..(120)
US-10-635-211-3
```

```
Query Match      68.0%; Score 40.8; DB 8; Length 120;
Best Local Similarity 80.0%; Pred. No. 0.0001;
Matches 48; Conservative 0; Mismatches 12; Indels 0; Gaps 0;
```

```
QY      1 GGTTCACGGCAGCTCCAGACACGAGTCACTGTGCACCCGACACCCGCTCCAGCTCCG 60
      ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db      1 GGTCTACCGCTCCGCCGCTCAGCGTGTACTCTGTCTCCGACACCCGCTCCGCTCCG 60
```

RESULT 3

```
US-10-635-211-8/c
; Sequence 8, Application US/10635211
; Publication No. US20050031649A1
; GENERAL INFORMATION:
; APPLICANT: Beijing HYDVAX Biotechnology Co. Ltd
; TITLE OF INVENTION: A recombinant fusion protein comprising BCG heat shock protein 65
; TITLE OF INVENTION: and the epitope of MUC1
; FILE REFERENCE: PP03012US
; CURRENT APPLICATION NUMBER: US/10/635,211
; NUMBER OF SEQ ID NOS: 9
; SOFTWARE: Patentln version 3.2
; SEQ ID NO 8
; LENGTH: 162
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Primer
US-10-635-211-8
```

```
Query Match      68.0%; Score 40.8; DB 8; Length 162;
Best Local Similarity 80.0%; Pred. No. 0.0001;
Matches 48; Conservative 0; Mismatches 12; Indels 0; Gaps 0;
```

```
QY      1 GGTTCACGGCAGCTCCAGACACGAGTCACTGTGCACCCGACACCCGCTCCAGCTCCG 60
      ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db      138 GGTTCACCGCTCCGCCGCTCAGCGTGTACTCTGTCTCCGACACCCGCTCCGCTCCG 79
```

RESULT 4

```
US-10-057-136-5
; Sequence 5, Application US/10057136
; Publication No. US20030021770A1
; GENERAL INFORMATION:
; APPLICANT: SCHLOM, JEFFREY
; APPLICANT: KANTOR, JUDITH
; APPLICANT: KUFE, DONALD
; APPLICANT: PANICALI, DENNIS
; APPLICANT: GRITZ, LINDA
; TITLE OF INVENTION: RECOMBINANT POX VIRUS FOR IMMUNIZATION AGAINST MUC1
; TITLE OF INVENTION: TUMOR-ASSOCIATED ANTIGEN
; FILE REFERENCE: 700953/47113C
; CURRENT APPLICATION NUMBER: US/10/057,136
; PRIOR APPLICATION NUMBER: 09/366,670
; PRIOR FILING DATE: 1999-08-03
; PRIOR APPLICATION NUMBER: PCT/US98/03693
; PRIOR FILING DATE: 1998-02-24
; PRIOR APPLICATION NUMBER: 60/038,253
```

```
; PRIOR FILING DATE: 1997-02-24
; NUMBER OF SEQ ID NOS: 20
; SOFTWARE: Patentln Ver. 2.1
; SEQ ID NO 5
; LENGTH: 60
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-057-136-5
```

```
Query Match      63.7%; Score 38.2; DB 5; Length 60;
Best Local Similarity 78.0%; Pred. No. 0.00085;
Matches 46; Conservative 0; Mismatches 13; Indels 0; Gaps 0;
```

```
QY      1 GGTTCACGGCAGCTCCAGACACGAGTCACTGTGCACCCGACACCCGCTCCAGCTCC 59
      ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db      1 GGATCCACCGCGCCGCTCGCGACGAGTGAAGTCGGCGCCCGACACGCGCCCGCTCC 59
```

RESULT 5

```
US-10-057-136-6
; Sequence 6, Application US/10057136
; Publication No. US20030021770A1
; GENERAL INFORMATION:
; APPLICANT: SCHLOM, JEFFREY
; APPLICANT: KANTOR, JUDITH
; APPLICANT: KUFE, DONALD
; APPLICANT: PANICALI, DENNIS
; APPLICANT: GRITZ, LINDA
; TITLE OF INVENTION: RECOMBINANT POX VIRUS FOR IMMUNIZATION AGAINST MUC1
; TITLE OF INVENTION: TUMOR-ASSOCIATED ANTIGEN
; FILE REFERENCE: 700953/47113C
; CURRENT APPLICATION NUMBER: US/10/057,136
; CURRENT FILING DATE: 2002-01-25
; PRIOR APPLICATION NUMBER: 09/366,670
; PRIOR FILING DATE: 1999-08-03
; PRIOR APPLICATION NUMBER: PCT/US98/03693
; PRIOR FILING DATE: 1998-02-24
; PRIOR APPLICATION NUMBER: 60/038,253
; NUMBER OF SEQ ID NOS: 20
; SOFTWARE: Patentln Ver. 2.1
; SEQ ID NO 6
; LENGTH: 60
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-057-136-6
```

```
Query Match      61.0%; Score 36.6; DB 5; Length 60;
Best Local Similarity 76.3%; Pred. No. 0.0031;
Matches 45; Conservative 0; Mismatches 14; Indels 0; Gaps 0;
```

```
QY      1 GGTTCACGGCAGCTCCAGACACGAGTCACTGTGCACCCGACACCCGCTCCAGCTCC 59
      ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db      1 GGTTCACAGCTCTCCCGCTCATGGGTACTTCTGTCTCAGATACTCGCCAGCTCC 59
```

RESULT 6

```
US-10-057-136-2
; Sequence 2, Application US/10057136
; Publication No. US20030021770A1
; GENERAL INFORMATION:
; APPLICANT: SCHLOM, JEFFREY
; APPLICANT: KANTOR, JUDITH
; APPLICANT: KUFE, DONALD
; APPLICANT: PANICALI, DENNIS
; APPLICANT: GRITZ, LINDA
; TITLE OF INVENTION: RECOMBINANT POX VIRUS FOR IMMUNIZATION AGAINST MUC1
; TITLE OF INVENTION: TUMOR-ASSOCIATED ANTIGEN
; FILE REFERENCE: 700953/47113C
; CURRENT APPLICATION NUMBER: US/10/057,136
; CURRENT FILING DATE: 2002-01-25
; PRIOR APPLICATION NUMBER: 09/366,670
; PRIOR FILING DATE: 1999-08-03
```

```
; PRIOR APPLICATION NUMBER: PCT/US98/03693
; PRIOR FILING DATE: 1998-02-24
; PRIOR APPLICATION NUMBER: 60/038,253
; PRIOR FILING DATE: 1997-02-24
; NUMBER OF SEQ ID NOS: 20
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2
; LENGTH: 60
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-057-136-2
```

```
Query Match          60.0%; Score 36; DB 5; Length 60;
Best Local Similarity 75.0%; Pred. No. 0.005;
Matches 45; Conservative 0; Mismatches 15; Indels 0; Gaps 0;
```

```
QY      1 GGTTCACGGCAGCTCCAGACAGGAGTCAGTCTGCACCCGACACCCGTCAGCTCCG 60
      |||||
Db      1 GGCTCCACCGCCCCCGACGCCGAGGTGTCACCTCGGCCCGGACACGAGCGGCCCG 60
```

RESULT 7

```
US-10-057-136-13
; Sequence 13, Application US/10057136
; Publication No. US20030021770A1
; GENERAL INFORMATION:
```

```
; APPLICANT: SCHLOM, JEFFREY
; APPLICANT: KANTOR, JUDITH
; APPLICANT: KUFE, DONALD
; APPLICANT: PANICALI, DENNIS
; APPLICANT: GRITZ, LINDA
; TITLE OF INVENTION: RECOMBINANT POX VIRUS FOR IMMUNIZATION AGAINST MUC1
; TITLE OF INVENTION: TUMOR-ASSOCIATED ANTIGEN
; FILE REFERENCE: 700953/47113C
; CURRENT APPLICATION NUMBER: US/10/057,136
; PRIOR FILING DATE: 2002-01-25
; PRIOR APPLICATION NUMBER: 09/366,670
; PRIOR FILING DATE: 1999-08-03
; PRIOR APPLICATION NUMBER: PCT/US98/03693
; PRIOR FILING DATE: 1998-02-24
; PRIOR APPLICATION NUMBER: 60/038,253
; PRIOR FILING DATE: 1997-02-24
; NUMBER OF SEQ ID NOS: 20
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 13
; LENGTH: 78
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-057-136-13
```

```
Query Match          60.0%; Score 36; DB 5; Length 78;
Best Local Similarity 75.0%; Pred. No. 0.005;
Matches 45; Conservative 0; Mismatches 15; Indels 0; Gaps 0;
```

```
QY      1 GGTTCACGGCAGCTCCAGACAGGAGTCAGTCTGCACCCGACACCCGTCAGCTCCG 60
      |||||
Db      1 GGCTCCACCGCACCCCGACGCCGAGGTGTCACCTCGGCCCGGACACGAGCGGCCCG 60
```

RESULT 8

```
US-10-057-136-7
; Sequence 7, Application US/10057136
; Publication No. US20030021770A1
; GENERAL INFORMATION:
```

```
; APPLICANT: SCHLOM, JEFFREY
; APPLICANT: KANTOR, JUDITH
; APPLICANT: KUFE, DONALD
; APPLICANT: PANICALI, DENNIS
; APPLICANT: GRITZ, LINDA
; TITLE OF INVENTION: RECOMBINANT POX VIRUS FOR IMMUNIZATION AGAINST MUC1
; TITLE OF INVENTION: TUMOR-ASSOCIATED ANTIGEN
; FILE REFERENCE: 700953/47113C
; CURRENT APPLICATION NUMBER: US/10/057,136
```

```
; CURRENT FILING DATE: 2002-01-25
; PRIOR APPLICATION NUMBER: 09/366,670
; PRIOR FILING DATE: 1999-08-03
; PRIOR APPLICATION NUMBER: PCT/US98/03693
; PRIOR FILING DATE: 1998-02-24
; PRIOR APPLICATION NUMBER: 60/038,253
; PRIOR FILING DATE: 1997-02-24
; NUMBER OF SEQ ID NOS: 20
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 7
; LENGTH: 60
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-057-136-7
```

```
Query Match          55.7%; Score 33.4; DB 5; Length 60;
Best Local Similarity 72.9%; Pred. No. 0.042;
Matches 43; Conservative 0; Mismatches 16; Indels 0; Gaps 0;
```

```
QY      1 GGTTCACGGCAGCTCCAGACAGGAGTCAGTCTGCACCCGACACCCGTCAGCTCC 59
      |||||
Db      1 GGTTGACGGCCCCCCTGTGTCACGGTGTAACATCCGCCCGGATACGACGCGCCCC 59
```

RESULT 9

```
US-09-864-864-258
; Sequence 258, Application US/09864864
; Patent No. US20020102679A1
; GENERAL INFORMATION:
```

```
; APPLICANT: Xu, Jiangchun
; APPLICANT: Mitcham, Jennifer L.
; APPLICANT: Harlocker, Susan L.
; APPLICANT: Dillon, David C.
; APPLICANT: Secrist, Heather
; APPLICANT: Lodes, Michael J.
; APPLICANT: Algate, Paul A.
; APPLICANT: Fling, Steve P.
; APPLICANT: Mannion, Jane
; APPLICANT: Benson, Darin R.
; APPLICANT: Carter, Darrick
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
; TITLE OF INVENTION: AND DIAGNOSIS OF OVARIAN CANCER
; FILE REFERENCE: 210121.523
; CURRENT APPLICATION NUMBER: US/09/864,864
; CURRENT FILING DATE: 2001-05-23
; NUMBER OF SEQ ID NOS: 341
; SOFTWARE: Corixa Invention Disclosure Database
; SEQ ID NO 258
; LENGTH: 164
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)...(164)
; OTHER INFORMATION: n = A,T,C or G
US-09-864-864-258
```

```
Query Match          53.7%; Score 32.2; DB 3; Length 164;
Best Local Similarity 66.7%; Pred. No. 0.11;
Matches 40; Conservative 0; Mismatches 20; Indels 0; Gaps 0;
```

```
QY      1 GGTTCACGGCAGCTCCAGACAGGAGTCAGTCTGCACCCGACACCCGTCAGCTCCG 60
      |||||
Db      103 GGTTGACGGCCCCCAGACAGGAGTCAGTCTGCACCCGACACCCGTCAGCTCCG 162
```

RESULT 10

```
US-10-057-136-10
; Sequence 10, Application US/10057136
; Publication No. US20030021770A1
; GENERAL INFORMATION:
```

```
; APPLICANT: SCHLOM, JEFFREY
; APPLICANT: KANTOR, JUDITH
```

```
; APPLICANT: KUFU, DONALD
; APPLICANT: PANICALI, DENNIS
; APPLICANT: GRITZ, LINDA
; TITLE OF INVENTION: RECOMBINANT POX VIRUS FOR IMMUNIZATION AGAINST MUC1
; FILE REFERENCE: 700953/47113C
; CURRENT APPLICATION NUMBER: US/10/057,136
; CURRENT FILING DATE: 2002-01-25
; PRIOR APPLICATION NUMBER: 09/366,670
; PRIOR FILING DATE: 1999-08-03
; PRIOR APPLICATION NUMBER: PCT/US98/03693
; PRIOR FILING DATE: 1998-02-24
; PRIOR APPLICATION NUMBER: 60/038,253
; PRIOR FILING DATE: 1997-02-24
; NUMBER OF SEQ ID NOS: 20
; SOFTWARE: Patentln Ver. 2.1
; SEQ ID NO 10
; LENGTH: 60
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-057-136-10
```

```
Query Match      53.0%; Score 31.8; DB 5; Length 60;
Best Local Similarity 71.2%; Pred. No. 0.15;
Matches 42; Conservative 0; Mismatches 17; Indels 0; Gaps 0;
```

```
QY 1 GGTCAACGGACCTCCAGACACGAGTCACTGTGCACCCGACACCCGTCAGCTCC 59
Db 1 GGCTCGACTGCCCTCCGCGCATGTGTGACTCAGCTCTGACACACAGGCCAGCCCC 59
```

```
RESULT 11
US-10-057-136-8
```

```
; Sequence 8, Application US/10057136
; Publication No. US20030021770A1
; GENERAL INFORMATION:
; APPLICANT: SCHLOM, JEFFREY
; APPLICANT: KANTOR, JUDITH
; APPLICANT: KUFU, DONALD
; APPLICANT: PANICALI, DENNIS
; APPLICANT: GRITZ, LINDA
; TITLE OF INVENTION: RECOMBINANT POX VIRUS FOR IMMUNIZATION AGAINST MUC1
; FILE REFERENCE: 700953/47113C
; CURRENT APPLICATION NUMBER: US/10/057,136
; CURRENT FILING DATE: 2002-01-25
; PRIOR APPLICATION NUMBER: 09/366,670
; PRIOR FILING DATE: 1999-08-03
; PRIOR APPLICATION NUMBER: PCT/US98/03693
; PRIOR FILING DATE: 1998-02-24
; PRIOR APPLICATION NUMBER: 60/038,253
; PRIOR FILING DATE: 1997-02-24
; NUMBER OF SEQ ID NOS: 20
; SOFTWARE: Patentln Ver. 2.1
; SEQ ID NO 8
; LENGTH: 60
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-057-136-8
```

```
Query Match      51.0%; Score 30.6; DB 5; Length 60;
Best Local Similarity 73.6%; Pred. No. 0.4;
Matches 39; Conservative 0; Mismatches 14; Indels 0; Gaps 0;
```

```
QY 7 ACCGCACTCCAGACACGAGTCACTGTGCACCCGACACCCGTCAGCTCC 59
Db 7 ACCGCAACGGCCCGACACGAGGTCAACAGCGCCGACACACTGACCTGCCCC 59
```

```
RESULT 12
US-10-057-136-14
; Sequence 14, Application US/10057136
; Publication No. US20030021770A1
```

```
; GENERAL INFORMATION:
; APPLICANT: SCHLOM, JEFFREY
; APPLICANT: KANTOR, JUDITH
; APPLICANT: KUFU, DONALD
; APPLICANT: PANICALI, DENNIS
; APPLICANT: GRITZ, LINDA
; TITLE OF INVENTION: RECOMBINANT POX VIRUS FOR IMMUNIZATION AGAINST MUC1
; FILE REFERENCE: 700953/47113C
; CURRENT APPLICATION NUMBER: US/10/057,136
; CURRENT FILING DATE: 2002-01-25
; PRIOR APPLICATION NUMBER: 09/366,670
; PRIOR FILING DATE: 1999-08-03
; PRIOR APPLICATION NUMBER: PCT/US98/03693
; PRIOR FILING DATE: 1998-02-24
; PRIOR APPLICATION NUMBER: 60/038,253
; PRIOR FILING DATE: 1997-02-24
; NUMBER OF SEQ ID NOS: 20
; SOFTWARE: Patentln Ver. 2.1
; SEQ ID NO 14
; LENGTH: 60
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-057-136-14
```

```
Query Match      50.7%; Score 30.4; DB 5; Length 60;
Best Local Similarity 71.4%; Pred. No. 0.47;
Matches 40; Conservative 0; Mismatches 16; Indels 0; Gaps 0;
```

```
QY 1 GGTCAACGGACCTCCAGACACGAGTCACTGTGCACCCGACACCCGTCAGC 56
Db 1 GGCTCCACCGCCCGCCGACGACCATGTGTACCTCGGCCCGGACACAGGCCCGC 56
```

```
RESULT 13
US-10-057-136-4
```

```
; Sequence 4, Application US/10057136
; Publication No. US20030021770A1
; GENERAL INFORMATION:
; APPLICANT: SCHLOM, JEFFREY
; APPLICANT: KANTOR, JUDITH
; APPLICANT: KUFU, DONALD
; APPLICANT: PANICALI, DENNIS
; APPLICANT: GRITZ, LINDA
; TITLE OF INVENTION: RECOMBINANT POX VIRUS FOR IMMUNIZATION AGAINST MUC1
; FILE REFERENCE: 700953/47113C
; CURRENT APPLICATION NUMBER: US/10/057,136
; CURRENT FILING DATE: 2002-01-25
; PRIOR APPLICATION NUMBER: 09/366,670
; PRIOR FILING DATE: 1999-08-03
; PRIOR APPLICATION NUMBER: PCT/US98/03693
; PRIOR FILING DATE: 1998-02-24
; PRIOR APPLICATION NUMBER: 60/038,253
; PRIOR FILING DATE: 1997-02-24
; NUMBER OF SEQ ID NOS: 20
; SOFTWARE: Patentln Ver. 2.1
; SEQ ID NO 4
; LENGTH: 60
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-057-136-4
```

```
Query Match      48.3%; Score 29; DB 5; Length 60;
Best Local Similarity 71.7%; Pred. No. 1.5;
Matches 38; Conservative 0; Mismatches 15; Indels 0; Gaps 0;
```

```
QY 7 ACCGCACTCCAGACACGAGTCACTGTGCACCCGACACCCGTCAGCTCC 59
Db 7 ACTGCACCAACGGCCGACATGGCGTAACATCAGACCTGATCAAGACCTGCACC 59
```

```
RESULT 14
```

US-10-057-136-9
 ; Sequence 9, Application US/10057136
 ; Publication No. US20030021770A1
 ; GENERAL INFORMATION:
 ; APPLICANT: SCHLOM, JEFFREY
 ; APPLICANT: KANTOR, JUDITH
 ; APPLICANT: KUEF, DONALD
 ; APPLICANT: PANICALI, DENNIS
 ; APPLICANT: GRITZ, LINDA
 ; TITLE OF INVENTION: RECOMBINANT POX VIRUS FOR IMMUNIZATION AGAINST MUC1
 ; FILE REFERENCE: 700953/47113C
 ; CURRENT APPLICATION NUMBER: US/10/057,136
 ; CURRENT FILING DATE: 2002-01-25
 ; PRIOR APPLICATION NUMBER: 09/366,670
 ; PRIOR FILING DATE: 1999-08-03
 ; PRIOR APPLICATION NUMBER: PCT/US98/03693
 ; PRIOR FILING DATE: 1998-02-24
 ; PRIOR APPLICATION NUMBER: 60/038,253
 ; PRIOR FILING DATE: 1997-02-24
 ; NUMBER OF SEQ ID NOS: 20
 ; SOFTWARE: PatentIn Ver. 2.1
 ; SEQ ID NO 9
 ; LENGTH: 60
 ; TYPE: DNA
 ; ORGANISM: Homo sapiens
 US-10-057-136-9

Query Match 48.3%; Score 29; DB 5; Length 60;
 Best Local Similarity 71.7%; Pred. No. 1.5;
 Matches 38; Conservative 0; Mismatches 15; Indels 0; Gaps 0;

OY 7 ACGGCACCTCCAGCAGCAGAGTCTGACACCGACCCGTCGACTCC 59
 |||||
 Db 7 ACGGCTCCACCTGCAGCAGGGGTCAAGCGCGCCAGACACTGACTGCGCC 59

RESULT 15
 US-10-471-607-4/c
 ; Sequence 4, Application US/10471607
 ; Publication No. US20040115740A1
 ; GENERAL INFORMATION:
 ; APPLICANT: The Victoria University of Manchester
 ; APPLICANT: Benson, Roderick
 ; TITLE OF INVENTION: Intracellular analysis.
 ; FILE REFERENCE: P088857PWO
 ; CURRENT APPLICATION NUMBER: US/10/471,607
 ; CURRENT FILING DATE: 2003-09-24
 ; PRIOR APPLICATION NUMBER: GB 0108165.2
 ; PRIOR FILING DATE: 3001-03-21
 ; NUMBER OF SEQ ID NOS: 16
 ; SOFTWARE: PatentIn version 3.1
 ; SEQ ID NO 4
 ; LENGTH: 93
 ; TYPE: DNA
 ; ORGANISM: Artificial
 ; FEATURE:
 ; OTHER INFORMATION: Artificial epitope construct
 US-10-471-607-4

Query Match 46.7%; Score 28; DB 7; Length 93;
 Best Local Similarity 77.3%; Pred. No. 3.3;
 Matches 34; Conservative 0; Mismatches 10; Indels 0; Gaps 0;

OY 1 GGTTCAACGGACCTCCAGCAGCAGAGTCTGACACCGCA 44
 |||||
 Db 57 GGCTCAACAGCCCCCGAGCTCATGTGTCACTGACTCCGA 14

Search completed: March 27, 2006, 17:07:49
 Job time : 372.4 secs

This Page Blank (uspto)

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OM nucleic - nucleic search, using sw model

Run on: March 27, 2006, 13:48:29 ; Search time 55.5 Seconds
(without alignments)
1921.688 Million cell updates/sec

Title: US-10-057-136A-11

Perfect score: 60
Sequence: 1 GGTTCAACGGCAGCTCCAGC.....CCGACACCCGTCAGCTCCG 60

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 1303057 seqs, 888780828 residues

Total number of hits satisfying chosen parameters: 1790828

Minimum DB seq length: 0
Maximum DB seq length: 500

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued Patents NA:*
1: /cgn2_6/ptodata/1/ina/1 COMB.seq:*
2: /cgn2_6/ptodata/1/ina/5 COMB.seq:*
3: /cgn2_6/ptodata/1/ina/6A COMB.seq:*
4: /cgn2_6/ptodata/1/ina/6B COMB.seq:*
5: /cgn2_6/ptodata/1/ina/H COMB.seq:*
6: /cgn2_6/ptodata/1/ina/PCTUS COMB.seq:*
7: /cgn2_6/ptodata/1/ina/PP COMB.seq:*
8: /cgn2_6/ptodata/1/ina/RE COMB.seq:*
9: /cgn2_6/ptodata/1/ina/backfile1.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	32.2	53.7	60	US-09-475-947A-246	Sequence 246, App
2	22.8	38.0	438	US-09-252-991A-6582	Sequence 6582, Ap
3	22.4	37.3	294	US-09-252-991A-6147	Sequence 6147, Ap
4	22.4	37.3	463	US-09-841-334A-7	Sequence 7, Appli
5	22.4	37.3	463	US-09-837-969A-7	Sequence 7, Appli
6	22.2	37.0	66	US-09-913-514-39	Sequence 39, Appl
7	22.2	37.0	93	US-09-913-514-35	Sequence 35, Appl
8	22.2	37.0	138	US-09-913-514-33	Sequence 33, Appl
9	22.2	37.0	309	US-09-902-540-7859	Sequence 7859, Ap
10	21.8	36.3	402	US-09-248-796A-9061	Sequence 9061, Ap
11	21.6	36.0	227	US-09-016-434-229	Sequence 229, App
12	21.6	36.0	456	US-09-902-540-3295	Sequence 3295, Ap
13	21.4	35.7	83	US-09-304-967-75	Sequence 75, Appl
14	21.4	35.7	264	US-09-583-110-1193	Sequence 1193, Ap
15	21.4	35.7	288	US-09-107-433-1419	Sequence 1419, Ap
16	21.4	35.7	315	US-09-107-433-713	Sequence 713, App
17	21.4	35.7	432	US-09-252-991A-1348	Sequence 1348, Ap
18	21.4	35.7	461	US-09-270-767-4406	Sequence 4406, Ap
19	21.4	35.7	461	US-09-270-767-19688	Sequence 19688, A
20	21.2	35.3	378	US-09-489-039A-1698	Sequence 1698, Ap
21	21	35.0	93	US-08-556-978B-67	Sequence 67, Appl
22	21	35.0	93	US-08-556-978B-68	Sequence 68, Appl
23	21	35.0	235	US-08-997-080-138	Sequence 138, App
24	21	35.0	235	US-08-997-362-138	Sequence 138, App

25	21	35.0	235	3	US-09-095-855-138	Sequence 138, App
26	21	35.0	225	3	US-09-324-542-138	Sequence 138, App
27	21	35.0	225	3	US-09-205-426-138	Sequence 138, App
28	21	35.0	303	3	US-08-556-978B-82	Sequence 82, Appl
29	21	35.0	303	3	US-09-248-796A-8746	Sequence 8746, Ap
30	21	35.0	307	3	US-09-533-559-4320	Sequence 4320, Ap
31	21	35.0	313	3	US-09-902-540-9364	Sequence 9364, Ap
32	21	35.0	416	3	US-09-544-398B-45	Sequence 45, Appl
33	21	35.0	416	3	US-09-544-398B-45	Sequence 45, Appl
34	21	35.0	422	3	US-09-854-133-337	Sequence 337, App
35	20.8	34.7	189	3	US-09-489-039A-5804	Sequence 5804, App
36	20.8	34.7	206	3	US-09-513-999C-33099	Sequence 33099, A
37	20.8	34.7	425	3	US-09-621-976-17530	Sequence 17530, A
38	20.8	34.7	481	3	US-10-125-258-51	Sequence 51, Appl
39	20.6	34.3	145	3	US-09-513-999C-14174	Sequence 14174, A
40	20.6	34.3	330	3	US-09-513-999C-11120	Sequence 11120, A
41	20.6	34.3	420	2	US-08-470-179-148	Sequence 148, App
42	20.6	34.3	431	3	US-09-433-241A-1	Sequence 1, Appli
43	20.6	34.3	441	3	US-08-914-375C-52	Sequence 52, Appl
44	20.6	34.3	449	3	US-08-688-908-3	Sequence 3, Appli
45	20.6	34.3	462	3	US-09-252-991A-9457	Sequence 9457, Ap

ALIGNMENTS

RESULT 1
US-09-475-947A-246
; Sequence 246, Application US/09475947A
; Patent No. 6472154
; GENERAL INFORMATION:
; APPLICANT: Garner, Harold R.
; APPLICANT: Wren, Jonathan D.
; APPLICANT: Minna, John D.
; TITLE OF INVENTION: Polymorphic Repeats in Human Genes
; FILE REFERENCE: UTSD0667
; CURRENT APPLICATION NUMBER: US/09/475, 947A
; CURRENT FILING DATE: 1999-12-31
; NUMBER OF SEQ ID NOS: 346
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 246
; LENGTH: 60
; TYPE: DNA
; ORGANISM: human
US-09-475-947A-246

Query Match 53.7%; Score 32.2; DB 3; Length 60;
Best Local Similarity 75.5%; Pred. No. 0.11;
Matches 40; Conservative 0; Mismatches 13; Indels 0; Gaps 0;

QY 1 GGTTCAACGGCAGCTCCAGCAGAGGTGACGTGTGACCCGACACCCGCTCC 53
Db 7 GGCTCCACCGCCGCCCGCAGCCAGCGGTGTACCTCGCCCGGACACCGAGCC 59

RESULT 2
US-09-252-991A-6582/c
; Sequence 6582, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252, 991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074, 788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094, 190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 6582
; LENGTH: 438

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; TYPE: DNA
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-6582

Query Match
Best Local Similarity 38.0%; Score 22.8; DB 3; Length 438;
Matches 36; Conservative 0; Mismatches 22; Indels 0; Gaps 0;

QY 3 TTCAACGGCAGCTCCAGACAGGAGTCAAGTTCGACCCCGACACCCGTCAGCTCCG 60
DB 114 TCGAACGGCAGCATCTCGCGAGGGCGCGCGTCCGCCACCCCGGTTTGAACAGCTCGG 57

RESULT 3
US-09-252-991A-6147
; Sequence 6147, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; PRIOR FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 6147
; LENGTH: 294
; TYPE: DNA
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-6147

Query Match
Best Local Similarity 37.3%; Score 22.4; DB 3; Length 294;
Matches 35; Conservative 0; Mismatches 21; Indels 0; Gaps 0;

QY 3 TTCAACGGCAGCTCCAGACAGGAGTCAAGTTCGACCCCGACACCCGTCAGCTC 58
DB 46 TTCAATATACCTGCAAGTCTCGAATTATTTTGCAGCCTGCGCCAAACGAGCC 101

RESULT 4
US-09-841-334A-7/c
; Sequence 7, Application US/09841334A
; Patent No. 6533819
; GENERAL INFORMATION:
; APPLICANT: Urry, Dan
; APPLICANT: Glazer, Paul
; TITLE OF INVENTION: Injectable Implants For Tissue Augmentation and Restoration
; FILE REFERENCE: BERL-020/05US
; CURRENT APPLICATION NUMBER: US/09/841,334A
; PRIOR FILING DATE: 2001-04-23
; PRIOR APPLICATION NUMBER: US 09/258,723
; PRIOR FILING DATE: 1999-02-26
; PRIOR APPLICATION NUMBER: US 60/087155
; PRIOR FILING DATE: 1998-05-29
; PRIOR APPLICATION NUMBER: US 60/076297
; PRIOR FILING DATE: 1998-02-27
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: Patentin version 3.0
; SEQ ID NO 7
; LENGTH: 463
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)..(463)
; OTHER INFORMATION: Synthetic
US-09-841-334A-7
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Query Match
Best Local Similarity 37.3%; Score 22.4; DB 3; Length 463;
Matches 32; Conservative 0; Mismatches 16; Indels 0; Gaps 0;

QY 10 GCACCTCCAGACACAGGAGTCAAGTTCGACCCCGACACCCGTCAGCT 57
DB 189 GCAACGCCACACCCGAGCTACACCCACACCCGGAAGCCTACACCT 142

RESULT 5
US-09-837-969A-7/c
; Sequence 7, Application US/09837969A
; Patent No. 6699294
; GENERAL INFORMATION:
; APPLICANT: Urry, Dan
; TITLE OF INVENTION: Injectable Implants For Tissue Augmentation and Restoration
; FILE REFERENCE: BERL-020/03US
; CURRENT APPLICATION NUMBER: US/09/837,969A
; PRIOR FILING DATE: 2001-06-19
; PRIOR APPLICATION NUMBER: US 09/258,723
; PRIOR FILING DATE: 1999-02-26
; PRIOR APPLICATION NUMBER: US 60/087155
; PRIOR FILING DATE: 1998-05-29
; PRIOR APPLICATION NUMBER: US 60/076297
; PRIOR FILING DATE: 1998-02-27
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: Patentin version 3.0
; SEQ ID NO 7
; LENGTH: 463
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)..(463)
; OTHER INFORMATION: Synthetic
US-09-837-969A-7

Query Match
Best Local Similarity 37.3%; Score 22.4; DB 3; Length 463;
Matches 32; Conservative 0; Mismatches 16; Indels 0; Gaps 0;

QY 10 GCACCTCCAGACACAGGAGTCAAGTTCGACCCCGACACCCGTCAGCT 57
DB 189 GCAACGCCACACCCGAGCTACACCCACACCCGGAAGCCTACACCT 142

RESULT 6
US-09-913-514-39
; Sequence 39, Application US/09913514
; Patent No. 6653069
; GENERAL INFORMATION:
; APPLICANT: GOMI, Yasuyuki
; APPLICANT: SUNAMACHI, Hiroki
; APPLICANT: TAKAHASHI, Michiaki
; APPLICANT: YAMANISHI, Koichi
; TITLE OF INVENTION: Method for Quality Control of an Attenuated Varicella Live Vaccine
; FILE REFERENCE: 0216-0454P
; CURRENT APPLICATION NUMBER: US/09/913,514
; PRIOR FILING DATE: 2001-12-07
; PRIOR APPLICATION NUMBER: PCT/JP01/00678
; PRIOR FILING DATE: 2001-01-31
; PRIOR APPLICATION NUMBER: JP 2000-62734
; PRIOR FILING DATE: 2000-01-31
; NUMBER OF SEQ ID NOS: 42
; SOFTWARE: Patentin version 3.1
; SEQ ID NO 39
; LENGTH: 66
; TYPE: DNA
; ORGANISM: Varicella virus
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)..(66)
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```
; OTHER INFORMATION: Parental Oka strain
US-09-913-514-39

Query Match      37.0%; Score 22.2; DB 3; Length 66;
Best Local Similarity 64.7%; Pred. No. 2.2e+02;
Matches 33; Conservative 0; Mismatches 18; Indels 0; Gaps 0;

QY      8 CGGACCTCCAGACACGGAGTCAGTCTGCACCCGACACACCCGTCAGCTC 58
      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB      8 CAGCCCGTCAGCCCGCGCAGCCCGCTCCAGCCCGCGCAGCCCGTCAGCCC 58

RESULT 7
US-09-913-514-35
; Sequence 35, Application US/09913514
; Patent No. 6653069
; GENERAL INFORMATION:
; APPLICANT: GOMI, Yasuyuki
; APPLICANT: SUNAMACHI, Hiroki
; APPLICANT: TAKAHASHI, Michiaki
; APPLICANT: YAMANISHI, Koichi
; TITLE OF INVENTION: Method for Quality Control of an Attenuated Varicella Live Vaccine
; FILE REFERENCE: 0216-0454P
; CURRENT APPLICATION NUMBER: US/09/913,514
; CURRENT FILING DATE: 2001-12-07
; PRIOR APPLICATION NUMBER: PCT/JP01/00678
; PRIOR FILING DATE: 2001-01-31
; PRIOR APPLICATION NUMBER: JP 2000-62734
; PRIOR FILING DATE: 2000-01-31
; NUMBER OF SEQ ID NOS: 42
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 35
; LENGTH: 93
; TYPE: DNA
; ORGANISM: Varicella virus
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)..(93)
; OTHER INFORMATION: Attenuated Oka strain
US-09-913-514-35

Query Match      37.0%; Score 22.2; DB 3; Length 93;
Best Local Similarity 64.7%; Pred. No. 2.3e+02;
Matches 33; Conservative 0; Mismatches 18; Indels 0; Gaps 0;

QY      8 CGGACCTCCAGACACGGAGTCAGTCTGCACCCGACACACCCGTCAGCTC 58
      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB      8 CAGCCCGTCAGCCCGCGCAGCCCGCTCCAGCCCGCGCAGCCCGTCAGCCC 58

RESULT 8
US-09-913-514-33
; Sequence 33, Application US/09913514
; Patent No. 6653069
; GENERAL INFORMATION:
; APPLICANT: GOMI, Yasuyuki
; APPLICANT: SUNAMACHI, Hiroki
; APPLICANT: TAKAHASHI, Michiaki
; APPLICANT: YAMANISHI, Koichi
; TITLE OF INVENTION: Method for Quality Control of an Attenuated Varicella Live Vaccine
; FILE REFERENCE: 0216-0454P
; CURRENT APPLICATION NUMBER: US/09/913,514
; CURRENT FILING DATE: 2001-12-07
; PRIOR APPLICATION NUMBER: PCT/JP01/00678
; PRIOR FILING DATE: 2001-01-31
; PRIOR APPLICATION NUMBER: JP 2000-62734
; PRIOR FILING DATE: 2000-01-31
; NUMBER OF SEQ ID NOS: 42
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 33
; LENGTH: 138
; TYPE: DNA
; ORGANISM: Varicella virus
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; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)..(138)
; OTHER INFORMATION: Attenuated Oka strain
US-09-913-514-33

Query Match      37.0%; Score 22.2; DB 3; Length 138;
Best Local Similarity 64.7%; Pred. No. 2.5e+02;
Matches 33; Conservative 0; Mismatches 18; Indels 0; Gaps 0;

QY      8 CGGACCTCCAGACACGGAGTCAGTCTGCACCCGACACACCCGTCAGCTC 58
      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB      62 CAGCCCGTCAGCCCGCGCAGCCCGCTCCAGCCCGCGCAGCCCGTCAGCCC 112

RESULT 9
US-09-902-540-7859/c
; Sequence 7859, Application US/09902540
; Patent No. 6833447
; GENERAL INFORMATION:
; APPLICANT: Goldman, Barry S.
; APPLICANT: Hinkle, Gregory J.
; APPLICANT: Slater, Steven C.
; APPLICANT: Wiegand, Roger C.
; TITLE OF INVENTION: Myxococcus xanthus Genome Sequences and Uses Thereof
; FILE REFERENCE: 38-10(15849)B
; CURRENT APPLICATION NUMBER: US/09/902,540
; CURRENT FILING DATE: 2001-07-10
; PRIOR APPLICATION NUMBER: 60/217,883
; PRIOR FILING DATE: 2000-07-10
; NUMBER OF SEQ ID NOS: 16825
; SEQ ID NO 7859
; LENGTH: 309
; TYPE: DNA
; ORGANISM: Myxococcus xanthus
US-09-902-540-7859

Query Match      37.0%; Score 22.2; DB 3; Length 309;
Best Local Similarity 64.7%; Pred. No. 2.8e+02;
Matches 33; Conservative 0; Mismatches 18; Indels 0; Gaps 0;

QY      10 GCACCTCCAGCACACGGAGTCAGTCTGCACCCGACACACCCGTCAGCTCCG 60
      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB      277 GCACCGAGAGCTCCGCGAGCCCGCGCGCGCAGAAATCAGTCGTCCTCCG 227

RESULT 10
US-09-248-796A-9061
; Sequence 9061, Application US/09248796A
; Patent No. 6747137
; GENERAL INFORMATION:
; APPLICANT: Keith Weinstein et al
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO CANDIDA ALBICANS
; TITLE OF INVENTION: FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 107196.132
; CURRENT APPLICATION NUMBER: US/09/248,796A
; CURRENT FILING DATE: 1999-02-12
; PRIOR APPLICATION NUMBER: US 60/074,725
; PRIOR FILING DATE: 1998-02-13
; PRIOR APPLICATION NUMBER: US 60/096,409
; PRIOR FILING DATE: 1998-08-13
; NUMBER OF SEQ ID NOS: 28208
; SEQ ID NO 9061
; LENGTH: 402
; TYPE: DNA
; ORGANISM: Candida albicans
US-09-248-796A-9061

Query Match      36.3%; Score 21.8; DB 3; Length 402;
Best Local Similarity 61.4%; Pred. No. 3.9e+02;
Matches 35; Conservative 0; Mismatches 22; Indels 0; Gaps 0;

QY      3 TTCAACGGACCTCCAGCACACGGAGTCAGTCTGCACCCGACACACCCGTCAGCTCC 59
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PRIOR FILING DATE: 1998-05-12
PRIOR APPLICATION NUMBER: US 60/051,553
PRIOR FILING DATE: 1997-07-02
NUMBER OF SEQ ID NOS: 5322
SEQ ID NO 1193
LENGTH: 264
TYPE: DNA
ORGANISM: Streptococcus pneumoniae
US-09-583-110-1193

Query Match 35.7%; Score 21.4; DB 3; Length 264;
Best Local Similarity 71.8%; Pred. No. 5e+02;
Matches 28; Conservative 0; Mismatches 11; Indels 0; Gaps 0;

QY 3 TTCACGGCACCCTCCAGCACACGAGTCAGCTGCACC 41
DB 210 TGCATCTGCACCTTCAGCTGAGATAGTTACGTCAGCACC 172

RESULT 15

US-09-107-433-1419
Sequence 1419, Application US/09107433
Patent No. 6800744

GENERAL INFORMATION:

APPLICANT: Lynn A Doucette-Stamm and David Bush
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID

SEQUENCES RELATING TO STREPTOCOCCUS PNEUMONIAE FOR DIAGNOSTIC THERAPEUTICS

NUMBER OF SEQUENCES: 5206

CORRESPONDENCE ADDRESS:

ADDRESSEE: GENOME THERAPEUTICS CORPORATION

STREET: 100 Beaver Street

CITY: Waltham

STATE: Massachusetts

COUNTRY: USA

ZIP: 02354

COMPUTER READABLE FORM:

MEDIUM TYPE: CD-ROM ISO9660

COMPUTER: <Unknown>

OPERATING SYSTEM: <Unknown>

SOFTWARE: <Unknown>

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/107,433

FILING DATE: 30-Jun-1998

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 60/ 085131

FILING DATE: May 12, 1998

APPLICATION NUMBER: 60/051553

FILING DATE: July 2, 1997

ATTORNEY/AGENT INFORMATION:

NAME: Ariniello, Pamela Deneke

REGISTRATION NUMBER: 40,489

REFERENCE/DOCKET NUMBER: GTC-011

TELECOMMUNICATION INFORMATION:

TELEPHONE: (781)893-5007

TELEFAX: (781)893-8277

INFORMATION FOR SEQ ID NO: 1419:

SEQUENCE CHARACTERISTICS:

LENGTH: 288 base pairs

TYPE: nucleic acid

STRANDEDNESS: double

TOPOLOGY: circular

MOLECULE TYPE: DNA (genomic)

HYPOTHETICAL: NO

ANTI-SENSE: NO

ORIGINAL SOURCE:

ORGANISM: Streptococcus pneumoniae

FEATURE:

NAME/KEY: misc feature

LOCATION: (B) LOCATION 1...288

SEQUENCE DESCRIPTION: SEQ ID NO: 1419:

US-09-107-433-1419

Query Match 35.7%; Score 21.4; DB 3; Length 288;
Best Local Similarity 71.8%; Pred. No. 5e+02;
Matches 28; Conservative 0; Mismatches 11; Indels 0; Gaps 0;

QY 3 TTCACGGCACCCTCCAGCACACGAGTCAGCTGCACC 41
DB 120 TGCATCTGCACCTTCAGCTGAGATAGTTACGTCAGCACC 158

Search completed: March 27, 2006, 16:33:31
Job time : 55.5 secs

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US-10-517-696-41
; Sequence 41, Application US/10517696
; Publication No. US20060051759A1
; GENERAL INFORMATION:
; APPLICANT: diadexus, Inc.
; APPLICANT: Salceda, Susana
; APPLICANT: Macina, Roberto A.
; APPLICANT: Turner, Leah R.
; APPLICANT: Sun, Yongming
; APPLICANT: Liu, Chenghua
; TITLE OF INVENTION: Compositions and Methods Relating to Breast Specific Genes and Pr
; FILE REFERENCE: DEX-0432
; CURRENT APPLICATION NUMBER: US/10/517,696
; PRIOR FILING DATE: 2004-12-13
; PRIOR APPLICATION NUMBER: US 60/389,327
; PRIOR FILING DATE: 2002-06-14
; NUMBER OF SEQ ID NOS: 171
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 41.
; LENGTH: 328
; TYPE: DNA
; ORGANISM: Homo sapien
US-10-517-696-41
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Query Match      58.3%; Score 35; DB 9; Length 328;
Best Local Similarity 74.6%; Pred. No. 0.04;
Matches 44; Conservative 0; Mismatches 15; Indels 0; Gaps 0;
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QY      1 GGGTCGACTGCCCCCTCCGGCGCATGTGTGACTCAGCTCCTGACACACAAGGCCAGCCCC 59
DB      95 GGCTCCACCGCGCCCGCAGCGCCGAGCCGCTGCTCAGCTCCGCCCGGACACACAGCGCGGCCCC 153
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RESULT 3
US-11-128-061-2535/c
; Sequence 2535, Application US/11128061
; Publication No. US2006003958A1
; GENERAL INFORMATION:
; APPLICANT: Melville, Mark W.
; APPLICANT: Charlebois, Timothy S.
; APPLICANT: Mounts, William M.
; APPLICANT: Hann, Louane E.
; APPLICANT: Sinacore, Martin S.
; APPLICANT: Leonard, Mark W.
; APPLICANT: Brown, Eugene L.
; APPLICANT: Miller, Christopher P.
; TITLE OF INVENTION: NOVEL POLYNUCLEOTIDES RELATED TO OLIGONUCLEOTIDE ARRAYS
; TITLE OF INVENTION: TO MONITOR GENE EXPRESSION
; FILE REFERENCE: 01997.027701
; CURRENT APPLICATION NUMBER: US/11/128,061
; CURRENT FILING DATE: 2005-05-11
; PRIOR APPLICATION NUMBER: US 60/570,425
; PRIOR FILING DATE: 2004-05-11
; NUMBER OF SEQ ID NOS: 7285
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 2535
; LENGTH: 343
; TYPE: DNA
; ORGANISM: Cricetulus griseus
US-11-128-061-2535
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Query Match      43.3%; Score 26; DB 14; Length 343;
Best Local Similarity 65.5%; Pred. No. 35;
Matches 38; Conservative 0; Mismatches 20; Indels 0; Gaps 0;
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QY      1 GGGTCGACTGCCCCCTCCGGCGCATGTGTGACTCAGCTCCTGACACACAAGGCCAGCCCC 58
DB      281 GGGGTACCCGCCCCCTCCGGCTTTGGAGTAGCTCAGCTCCGCCCGCAGAGGTCTACTC 224
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RESULT 4
US-11-128-061-6177/c
; Sequence 6177, Application US/11128061
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; Publication No. US2006003958A1
; GENERAL INFORMATION:
; APPLICANT: Melville, Mark W.
; APPLICANT: Charlebois, Timothy S.
; APPLICANT: Mounts, William M.
; APPLICANT: Hann, Louane E.
; APPLICANT: Sinacore, Martin S.
; APPLICANT: Leonard, Mark W.
; APPLICANT: Brown, Eugene L.
; APPLICANT: Miller, Christopher P.
; TITLE OF INVENTION: NOVEL POLYNUCLEOTIDES RELATED TO OLIGONUCLEOTIDE ARRAYS
; TITLE OF INVENTION: TO MONITOR GENE EXPRESSION
; FILE REFERENCE: 01997.027701
; CURRENT APPLICATION NUMBER: US/11/128,061
; CURRENT FILING DATE: 2005-05-11
; PRIOR APPLICATION NUMBER: US 60/570,425
; PRIOR FILING DATE: 2004-05-11
; NUMBER OF SEQ ID NOS: 7285
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 6177
; LENGTH: 343
; TYPE: DNA
; ORGANISM: Cricetulus griseus
US-11-128-061-6177
```

```
Query Match      43.3%; Score 26; DB 14; Length 343;
Best Local Similarity 65.5%; Pred. No. 35;
Matches 38; Conservative 0; Mismatches 20; Indels 0; Gaps 0;
```

```
QY      1 GGGTCGACTGCCCCCTCCGGCGCATGTGTGACTCAGCTCCTGACACACAAGGCCAGCCCC 58
DB      281 GGGGTACCCGCCCCCTCCGGCTTTGGAGTAGCTCAGCTCCGCCCGCAGAGGTCTACTC 224
```

```
RESULT 5
US-11-128-049-2535/c
; Sequence 2535, Application US/11128049
; Publication No. US20060010513A1
; GENERAL INFORMATION:
; APPLICANT: Melville, Mark W.
; APPLICANT: Charlebois, Timothy S.
; APPLICANT: Mounts, William M.
; APPLICANT: Hann, Louane E.
; APPLICANT: Sinacore, Martin S.
; APPLICANT: Leonard, Mark W.
; APPLICANT: Brown, Eugene L.
; APPLICANT: Miller, Christopher P.
; TITLE OF INVENTION: OLIGONUCLEOTIDE ARRAYS TO MONITOR GENE EXPRESSION AND METHODS FOR
; TITLE OF INVENTION: MAKING AND USING SAME
; FILE REFERENCE: 01997.027700
; CURRENT APPLICATION NUMBER: US/11/128,049
; CURRENT FILING DATE: 2005-05-11
; PRIOR APPLICATION NUMBER: US 60/570,425
; PRIOR FILING DATE: 2004-05-11
; NUMBER OF SEQ ID NOS: 7285
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 2535
; LENGTH: 343
; TYPE: DNA
; ORGANISM: Cricetulus griseus
US-11-128-049-2535
```

```
Query Match      43.3%; Score 26; DB 14; Length 343;
Best Local Similarity 65.5%; Pred. No. 35;
Matches 38; Conservative 0; Mismatches 20; Indels 0; Gaps 0;
```

```
QY      1 GGGTCGACTGCCCCCTCCGGCGCATGTGTGACTCAGCTCCTGACACACAAGGCCAGCCCC 58
DB      281 GGGGTACCCGCCCCCTCCGGCTTTGGAGTAGCTCAGCTCCGCCCGCAGAGGTCTACTC 224
```

```
RESULT 6
US-11-128-049-6177/c
```

```
; Sequence 6177, Application US/11128049
; Publication No. US20060010513A1
; GENERAL INFORMATION:
; APPLICANT: Melville, Mark W.
; APPLICANT: Charlebois, Timothy S.
; APPLICANT: Mounts, William M.
; APPLICANT: Hamt, Louane E.
; APPLICANT: Sinacore, Martin S.
; APPLICANT: Leonard, Mark W.
; APPLICANT: Brown, Eugene L.
; APPLICANT: Miller, Christopher P.
; TITLE OF INVENTION: OLIGONUCLEOTIDE ARRAYS TO MONITOR GENE EXPRESSION AND METHODS FOR
; TITLE OF INVENTION: MAKING AND USING SAME
; FILE REFERENCE: 01997.027700
; CURRENT APPLICATION NUMBER: US/11/128,049
; PRIOR FILING DATE: 2005-05-11
; PRIOR APPLICATION NUMBER: US 60/570,425
; PRIOR FILING DATE: 2004-05-11
; NUMBER OF SEQ ID NOS: 7285
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 6177
; LENGTH: 343
; TYPE: DNA
; ORGANISM: Cricetulus griseus
US-11-128-049-6177
```

Query Match 43.3%; Score 26; DB 14; Length 343;
Best Local Similarity 65.5%; Pred. No. 35;
Matches 38; Conservative 0; Mismatches 20; Indels 0; Gaps 0;

```
QY 1 GGGTCGACTGCCCTCCGGCGCATGTGTGACCTCAGCTCCTGACACAAGGCCAGCCCC 58
Db 281 GGGTACCCTCCCTCCGGCGCATGTGTGACCTCAGCTCCTGACACAAGGCCAGGTCTC 224
```

RESULT 7

```
US-09-925-065A-609835/c
; Sequence 609835, Application US/09925065A
; Publication No. US20040181048A1
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single
; TITLE OF INVENTION: Nucleotide Polymorphisms in the Human Genome
; FILE REFERENCE: 108827.135
; CURRENT APPLICATION NUMBER: US/09/925,065A
; CURRENT FILING DATE: 2001-08-08
; PRIOR APPLICATION NUMBER: US 60/243,096
; PRIOR FILING DATE: 2000-10-24
; PRIOR APPLICATION NUMBER: US 60/252,147
; PRIOR FILING DATE: 2000-11-20
; PRIOR APPLICATION NUMBER: US 60/250,092
; PRIOR FILING DATE: 2000-11-30
; PRIOR APPLICATION NUMBER: US 60/261,766
; PRIOR FILING DATE: 2001-01-16
; PRIOR APPLICATION NUMBER: US 60/289,846
; PRIOR FILING DATE: 2001-05-09
; NUMBER OF SEQ ID NOS: 957086
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 609835
; LENGTH: 371
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-925-065A-609835
```

Query Match 40.3%; Score 24.2; DB 6; Length 371;
Best Local Similarity 66.0%; Pred. No. 1.3e+02;
Matches 35; Conservative 0; Mismatches 18; Indels 0; Gaps 0;

```
QY 7 ACTGCCCTCCGGCGCATGTGTGACCTCAGCTCCTGACACAAGGCCAGCCCC 59
Db 182 ACAGACCTCCTCCGGCATCTGTGAATCAGAGCTTCACTCAGCAGGCCCC 130
```

```
RESULT 8
US-09-925-065A-609836/c
; Publication No. US20040181048A1
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single
; TITLE OF INVENTION: Nucleotide Polymorphisms in the Human Genome
; FILE REFERENCE: 108827.135
; CURRENT APPLICATION NUMBER: US/09/925,065A
; CURRENT FILING DATE: 2001-08-08
; PRIOR APPLICATION NUMBER: US 60/243,096
; PRIOR FILING DATE: 2000-10-24
; PRIOR APPLICATION NUMBER: US 60/252,147
; PRIOR FILING DATE: 2000-11-20
; PRIOR APPLICATION NUMBER: US 60/250,092
; PRIOR FILING DATE: 2000-11-30
; PRIOR APPLICATION NUMBER: US 60/261,766
; PRIOR FILING DATE: 2001-01-16
; PRIOR APPLICATION NUMBER: US 60/289,846
; PRIOR FILING DATE: 2001-05-09
; NUMBER OF SEQ ID NOS: 957086
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 609836
; LENGTH: 371
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-925-065A-609836
```

Query Match 40.3%; Score 24.2; DB 6; Length 371;
Best Local Similarity 66.0%; Pred. No. 1.3e+02;
Matches 35; Conservative 0; Mismatches 18; Indels 0; Gaps 0;

```
QY 7 ACTGCCCTCCGGCGCATGTGTGACCTCAGCTCCTGACACAAGGCCAGCCCC 59
Db 182 ACAGACCTCCTCCGGCATCTGTGAATCAGAGCTTCACTCAGCAGGCCCC 130
```

RESULT 9

```
US-11-124-367A-550/c
; Sequence 550, Application US/11124367A
; Publication No. US20060024700A1
; GENERAL INFORMATION:
; APPLICANT: Michele Cargill
; TITLE OF INVENTION: Genetic Polymorphisms Associated with
; TITLE OF INVENTION: Fibrosis Methods of Detection and Uses Thereof
; FILE REFERENCE: CL001519.ORD
; CURRENT APPLICATION NUMBER: US/11/124,367A
; CURRENT FILING DATE: 2005-05-09
; PRIOR APPLICATION NUMBER: US 60/568,846
; PRIOR FILING DATE: 2004-05-07
; PRIOR APPLICATION NUMBER: US 60/582,609
; PRIOR FILING DATE: 2004-06-25
; PRIOR APPLICATION NUMBER: US 60/599,554
; PRIOR FILING DATE: 2004-08-09
; NUMBER OF SEQ ID NOS: 34460
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 550
; LENGTH: 201
; TYPE: DNA
; ORGANISM: Homo sapiens
US-11-124-367A-550
```

Query Match 37.3%; Score 22.4; DB 14; Length 201;
Best Local Similarity 72.5%; Pred. No. 5.2e+02;
Matches 29; Conservative 0; Mismatches 11; Indels 0; Gaps 0;

```
QY 3 GTGCACTGCCCTCCGGCGCATGTGTGACCTCAGCTCCT 42
Db 75 GCCGACTTCCATCCAGCTCAGCCTGTCTCTCAGCTCCT 36
```



```
RESULT 10
US-11-124-367A-571/c
; Sequence 571, Application US/11124367A
; Publication No. US20060024700A1
; GENERAL INFORMATION:
; APPLICANT: Michele Cargill
; APPLICANT: Hongjin Huang
; TITLE OF INVENTION: Genetic Polymorphisms Associated with
; TITLE OF INVENTION: Fibrosis Methods of Detection and Uses Thereof
; FILE REFERENCE: CL001519.ORD
; CURRENT APPLICATION NUMBER: US/11/124,367A
; PRIOR FILING DATE: 2005-05-09
; PRIOR APPLICATION NUMBER: US 60/568,846
; PRIOR FILING DATE: 2004-05-07
; PRIOR APPLICATION NUMBER: US 60/582,609
; PRIOR FILING DATE: 2004-06-25
; PRIOR APPLICATION NUMBER: US 60/599,554
; PRIOR FILING DATE: 2004-08-09
; NUMBER OF SEQ ID NOS: 34460
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 571
; LENGTH: 201
; TYPE: DNA
; ORGANISM: Homo sapiens
US-11-124-367A-571
```

```
Query Match      37.3%; Score 22.4; DB 14; Length 201;
Best Local Similarity 72.5%; Pred. No. 5.2e+02;
Matches 29; Conservative 0; Mismatches 11; Indels 0; Gaps 0;
```

```
Oy      3 GTGACTGCCCTCCGGCGCATGTGTGACTCAGCTCCT 42
      ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db      97 GCCGACTTCCCATCCAGCTCAGCTGCTCTTCAGCTCCT 58
```

```
RESULT 11
US-11-124-367A-7169/c
; Sequence 7169, Application US/11124367A
; Publication No. US20060024700A1
; GENERAL INFORMATION:
; APPLICANT: Michele Cargill
; APPLICANT: Hongjin Huang
; TITLE OF INVENTION: Genetic Polymorphisms Associated with
; TITLE OF INVENTION: Fibrosis Methods of Detection and Uses Thereof
; FILE REFERENCE: CL001519.ORD
; CURRENT APPLICATION NUMBER: US/11/124,367A
; PRIOR FILING DATE: 2005-05-09
; PRIOR APPLICATION NUMBER: US 60/568,846
; PRIOR FILING DATE: 2004-05-07
; PRIOR APPLICATION NUMBER: US 60/582,609
; PRIOR FILING DATE: 2004-06-25
; PRIOR APPLICATION NUMBER: US 60/599,554
; PRIOR FILING DATE: 2004-08-09
; NUMBER OF SEQ ID NOS: 34460
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 7169
; LENGTH: 201
; TYPE: DNA
; ORGANISM: Homo sapiens
US-11-124-367A-7169
```

```
Query Match      37.3%; Score 22.4; DB 14; Length 201;
Best Local Similarity 72.5%; Pred. No. 5.2e+02;
Matches 29; Conservative 0; Mismatches 11; Indels 0; Gaps 0;
```

```
Oy      3 GTGACTGCCCTCCGGCGCATGTGTGACTCAGCTCCT 42
      ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db      75 GCCGACTTCCCATCCAGCTCAGCTGCTCTTCAGCTCCT 36
```

```
RESULT 12
US-11-124-367A-7170/c
; Sequence 7170, Application US/11124367A
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; Publication No. US20060024700A1
; GENERAL INFORMATION:
; APPLICANT: Michele Cargill
; APPLICANT: Hongjin Huang
; TITLE OF INVENTION: Genetic Polymorphisms Associated with
; TITLE OF INVENTION: Fibrosis Methods of Detection and Uses Thereof
; FILE REFERENCE: CL001519.ORD
; CURRENT APPLICATION NUMBER: US/11/124,367A
; PRIOR FILING DATE: 2005-05-09
; PRIOR APPLICATION NUMBER: US 60/568,846
; PRIOR FILING DATE: 2004-05-07
; PRIOR APPLICATION NUMBER: US 60/582,609
; PRIOR FILING DATE: 2004-06-25
; PRIOR APPLICATION NUMBER: US 60/599,554
; PRIOR FILING DATE: 2004-08-09
; NUMBER OF SEQ ID NOS: 34460
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 7170
; LENGTH: 201
; TYPE: DNA
; ORGANISM: Homo sapiens
US-11-124-367A-7170
```

```
Query Match      37.3%; Score 22.4; DB 6; Length 201;
Best Local Similarity 72.5%; Pred. No. 5.2e+02;
Matches 29; Conservative 0; Mismatches 11; Indels 0; Gaps 0;
```

```
Oy      3 GTGACTGCCCTCCGGCGCATGTGTGACTCAGCTCCT 42
      ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db      97 GCCGACTTCCCATCCAGCTCAGCTGCTCTTCAGCTCCT 58
```

```
RESULT 13
US-09-925-065A-483357/c
; Sequence 483357, Application US/09925065A
; Publication No. US20040181048A1
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single
; TITLE OF INVENTION: Nucleotide Polymorphisms in the Human Genome
; FILE REFERENCE: 108827.135
; CURRENT APPLICATION NUMBER: US/09/925,065A
; PRIOR FILING DATE: 2001-08-08
; PRIOR APPLICATION NUMBER: US 60/243,096
; PRIOR FILING DATE: 2000-10-24
; PRIOR APPLICATION NUMBER: US 60/252,147
; PRIOR FILING DATE: 2000-11-20
; PRIOR APPLICATION NUMBER: US 60/250,092
; PRIOR FILING DATE: 2000-11-30
; PRIOR APPLICATION NUMBER: US 60/261,766
; PRIOR FILING DATE: 2001-01-16
; PRIOR APPLICATION NUMBER: US 60/289,846
; PRIOR FILING DATE: 2001-05-09
; NUMBER OF SEQ ID NOS: 957086
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 483357
; LENGTH: 387
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-925-065A-483357
```

```
Query Match      36.7%; Score 22; DB 6; Length 387;
Best Local Similarity 63.0%; Pred. No. 7e+02;
Matches 34; Conservative 0; Mismatches 20; Indels 0; Gaps 0;
```

```
Oy      6 GACTGCCCTCCGGCGCATGTGTGACTCAGCTCTGACACAAAGGCCAGCCCC 59
      ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db      230 GCCCTCCGCTACGCGCATCTTTCTCTCAGAGTCTGACACCTGGCGCCCCC 177
```

```
RESULT 14
US-10-401-386B-59
; Sequence 59, Application US/10401386B
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Search completed: March 27, 2006, 14:47:09
Job time : 321.3 secs

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; Publication No. US20050261213A1
; GENERAL INFORMATION:
; APPLICANT: Patrick Branigan
; APPLICANT: Theresa J Goletz
; APPLICANT: David M Knight
; APPLICANT: Stephen G McCarthy
; APPLICANT: Bernard J Scallan
; APPLICANT: Linda A Snyder
; TITLE OF INVENTION: Nucleic Acid Compositions and Methods
; FILE REFERENCE: CEN 310CIP
; CURRENT APPLICATION NUMBER: US/10/401,386B
; PRIOR FILING DATE: 2003-03-28
; PRIOR APPLICATION NUMBER: 10/247,203
; PRIOR FILING DATE: 2002-09-19
; PRIOR APPLICATION NUMBER: 60/328,371
; PRIOR FILING DATE: 2001-10-10
; NUMBER OF SEQ ID NOS: 81
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 59
; LENGTH: 36
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (1)...(36)
US-10-401-386B-59
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Query Match 36.3%; Score 21.8; DB 8; Length 36;
Best Local Similarity 78.8%; Pred. No. 8.3e+02;
Matches 26; Conservative 0; Mismatches 7; Indels 0; Gaps 0;
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```
QY 1 GGGTCGACTGCCCTCCGGCGCATGCTGACC 33
Db 4 GGCTCCACCGCGCCCCCAGCCCATGCTCACC 36
```

```
RESULT 15
US-09-925-065A-536717/C
; Sequence 536717, Application US/09925065A
; Publication No. US20040181048A1
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single
; FILE REFERENCE: 108827.135
; CURRENT APPLICATION NUMBER: US/09/925,065A
; PRIOR FILING DATE: 2001-08-08
; PRIOR APPLICATION NUMBER: US 60/243,096
; PRIOR FILING DATE: 2000-10-24
; PRIOR APPLICATION NUMBER: US 60/252,147
; PRIOR FILING DATE: 2000-11-20
; PRIOR APPLICATION NUMBER: US 60/250,092
; PRIOR FILING DATE: 2000-11-30
; PRIOR APPLICATION NUMBER: US 60/261,766
; PRIOR FILING DATE: 2001-01-16
; PRIOR APPLICATION NUMBER: US 60/289,846
; PRIOR FILING DATE: 2001-05-09
; NUMBER OF SEQ ID NOS: 957086
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 536717
; LENGTH: 205
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-925-065A-536717
```

```
Query Match 35.7%; Score 21.4; DB 6; Length 205;
Best Local Similarity 66.0%; Pred. No. 1.1e+03;
Matches 31; Conservative 0; Mismatches 16; Indels 0; Gaps 0;
```

```
QY 14 CTCGGCGCATGCTGTGACTCTGACCTGACACAGGCCAGCCCCA 60
Db 99 CTCAGGTAATGATGACCACTCCCTCTTCATCATGACCGGCCCA 53
```

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GenCore version 5.1.7
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OM nucleic - nucleic search, using sw model

Run on: March 27, 2006, 13:49:57 ; Search time 371.4 Seconds
(without alignments)
1335.925 Million cell updates/sec

Title: US-10-057-136A-10
Perfect score: 60
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Scoring table: IDENTITY NUC
Gapop 10.0 , Gapext 1.0

Searched: 9793542 seqs, 4134689005 residues

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Listing first 45 summaries

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	60	100.0	60	US-10-057-136-10	Sequence 10, Appli
2	38.2	63.7	60	US-10-057-136-2	Sequence 2, Appli
3	36.2	60.3	60	US-10-057-136-14	Sequence 14, Appli
4	36	60.0	60	US-10-057-136-6	Sequence 6, Appli
5	35.4	59.0	60	US-10-057-136-4	Sequence 4, Appli
6	35	58.3	60	US-10-057-136-7	Sequence 7, Appli
7	35	58.3	78	US-10-057-136-13	Sequence 13, Appli
8	35	58.3	120	US-10-635-211-3	Sequence 3, Appli
9	35	58.3	162	US-10-635-211-8	Sequence 8, Appli
10	32.8	54.7	164	US-09-864-864-258	Sequence 258, App
11	31.8	53.0	60	US-10-057-136-5	Sequence 5, Appli
12	31.8	53.0	60	US-10-057-136-11	Sequence 11, Appli
13	31.4	52.3	93	US-10-471-607-4	Sequence 4, Appli
14	31.4	52.3	157	US-10-471-607-6	Sequence 6, Appli
15	28.2	47.0	157	US-10-471-607-9	Sequence 9, Appli
16	28.2	47.0	364	US-09-918-995-29996	Sequence 29996, A
17	26.2	43.7	156	US-10-471-607-5	Sequence 5, Appli
18	25.8	43.0	60	US-10-057-136-12	Sequence 12, Appli
19	24.8	41.3	491	US-09-918-995-14419	Sequence 14419, A
20	24.4	40.7	90	US-10-296-734-1163	Sequence 1163, Ap
21	24.4	40.7	443	US-10-084-817-190	Sequence 190, App
22	24.4	40.7	467	US-10-305-720-1158	Sequence 1158, Ap
23	24.2	40.3	371	US-09-925-065A-609835	Sequence 609835,

C	24	24.2	40.3	371	4	US-09-925-065A-609836	Sequence 609836,
	25	24.2	40.3	408	3	US-09-938-842A-478	Sequence 478, App
	26	24.2	40.3	408	3	US-09-938-842A-478	Sequence 478, App
	27	24	40.0	326	7	US-10-437-963-34674	Sequence 34674, A
	28	24	40.0	394	7	US-10-469-285-675	Sequence 675, App
C	29	23.8	39.7	60	3	US-09-908-975-22745	Sequence 22745, A
	30	23.8	39.7	180	3	US-09-864-761-23253	Sequence 23253, A
C	31	23.8	39.7	209	7	US-10-242-535A-30400	Sequence 30400, A
	32	23.8	39.7	209	7	US-10-085-783A-30400	Sequence 30400, A
C	33	23.8	39.7	483	3	US-09-864-761-6541	Sequence 6541, Ap
	34	23.6	39.3	60	5	US-10-057-136-8	Sequence 8, Appli
	35	23.6	39.3	60	5	US-10-057-136-9	Sequence 9, Appli
C	36	23.6	39.3	201	8	US-10-741-600-46617	Sequence 46617, A
	37	23.4	39.0	198	7	US-10-437-963-46518	Sequence 46518, A
C	38	23.4	39.0	263	8	US-10-723-860-669	Sequence 669, App
	39	23.4	39.0	303	7	US-10-437-963-24592	Sequence 24592, A
C	40	23.4	39.0	426	3	US-09-783-590-5389	Sequence 5389, Ap
C	41	23.4	39.0	464	3	US-09-814-353-2504	Sequence 2504, Ap
C	42	23.4	39.0	464	3	US-09-814-353-8841	Sequence 8841, Ap
	43	23.2	38.7	208	6	US-10-029-386-14176	Sequence 14176, A
	44	23.2	38.7	444	8	US-10-425-115-38358	Sequence 38358, A
	45	23.2	38.7	500	6	US-10-029-386-11444	Sequence 11444, A

ALIGNMENTS

RESULT 1
US-10-057-136-10
; Sequence 10, Application US/10057136
; Publication No. US20030021770A1
; GENERAL INFORMATION:
; APPLICANT: SCHLOM, JEFFREY
; APPLICANT: KANTOR, JUDITH
; APPLICANT: KUFE, DONALD
; APPLICANT: PANICALI, DENNIS
; APPLICANT: GRITZ, LINDA
; TITLE OF INVENTION: RECOMBINANT POX VIRUS FOR IMMUNIZATION AGAINST MUC1
; FILE REFERENCE: 700953/47113C
; CURRENT APPLICATION NUMBER: US/10/057,136
; CURRENT FILING DATE: 2002-01-25
; PRIOR APPLICATION NUMBER: 09/366,670
; PRIOR FILING DATE: 1999-08-03
; PRIOR APPLICATION NUMBER: PCT/US98/03693
; PRIOR FILING DATE: 1998-02-24
; PRIOR APPLICATION NUMBER: 60/038,253
; PRIOR FILING DATE: 1997-02-24
; NUMBER OF SEQ ID NOS: 20
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 10
; LENGTH: 60
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-057-136-10
Query Match 100.0%; Score 60; DB 5; Length 60;
Best Local Similarity 100.0%; Pred. No. 1.6e-12;
Matches 60; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 GGGTCGACTGCCCCCTCCGGCGCATGTGTGACCTCCTGACACAGGCCAGCCCCA 60
Db 1 GGGTCGACTGCCCCCTCCGGCGCATGTGTGACCTCCTGACACAGGCCAGCCCCA 60
RESULT 2
US-10-057-136-2
; Sequence 2, Application US/10057136
; Publication No. US20030021770A1
; GENERAL INFORMATION:
; APPLICANT: SCHLOM, JEFFREY
; APPLICANT: KANTOR, JUDITH
; APPLICANT: KUFE, DONALD

```
; APPLICANT: PANICALI, DENNIS
; APPLICANT: GRITZ, LINDA
; TITLE OF INVENTION: RECOMBINANT POX VIRUS FOR IMMUNIZATION AGAINST MUC1
; TITLE OF INVENTION: TUMOR-ASSOCIATED ANTIGEN
; FILE REFERENCE: 700953/47113C
; CURRENT FILING DATE: 2002-01-25
; CURRENT FILING DATE: 2002-01-25
; PRIOR APPLICATION NUMBER: 09/366,670
; PRIOR FILING DATE: 1999-08-03
; PRIOR APPLICATION NUMBER: PCT/US98/03693
; PRIOR FILING DATE: 1998-02-24
; PRIOR APPLICATION NUMBER: 60/038,253
; PRIOR FILING DATE: 1997-02-24
; NUMBER OF SEQ ID NOS: 20
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2
; LENGTH: 60
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-057-136-2
```

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Query Match      63.7%; Score 38.2; DB 5; Length 60;
Best Local Similarity 78.0%; Pred. No. 0.00021;
Matches 46; Conservative 0; Mismatches 13; Indels 0; Gaps 0;
```

```
QY 1 GGGTCGACTGCCCTCCGGCGCATGTGTGACTCAGCTCCTGACACACAGGCCAGCCCC 59
    |||||
DB 1 GGCTCCACCGCCCCCGACGCCGCTGTCACCTCGCCCCGACACACAGGCCAGCCCC 59
```

```
RESULT 3
US-10-057-136-14
; Sequence 14, Application US/10057136
; Publication No. US20030021770A1
; GENERAL INFORMATION:
```

```
; APPLICANT: SCHLOM, JEFFREY
; APPLICANT: KANTOR, JUDITH
; APPLICANT: KUFE, DONALD
; APPLICANT: PANICALI, DENNIS
; APPLICANT: GRITZ, LINDA
; TITLE OF INVENTION: RECOMBINANT POX VIRUS FOR IMMUNIZATION AGAINST MUC1
; TITLE OF INVENTION: TUMOR-ASSOCIATED ANTIGEN
; FILE REFERENCE: 700953/47113C
; CURRENT APPLICATION NUMBER: US/10/057,136
; CURRENT FILING DATE: 2002-01-25
; PRIOR APPLICATION NUMBER: 09/366,670
; PRIOR FILING DATE: 1999-08-03
; PRIOR APPLICATION NUMBER: PCT/US98/03693
; PRIOR FILING DATE: 1998-02-24
; PRIOR APPLICATION NUMBER: 60/038,253
; PRIOR FILING DATE: 1997-02-24
; NUMBER OF SEQ ID NOS: 20
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 14
; LENGTH: 60
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-057-136-14
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Query Match      60.3%; Score 36.2; DB 5; Length 60;
Best Local Similarity 77.2%; Pred. No. 0.0012;
Matches 44; Conservative 0; Mismatches 13; Indels 0; Gaps 0;
```

```
QY 1 GGGTCGACTGCCCTCCGGCGCATGTGTGACTCAGCTCCTGACACACAGGCCAGCC 57
    |||||
DB 1 GGCTCCACCGCCCCCGACGCCGCTGTCACCTCGCCCCGACACACAGGCCAGCC 57
```

```
RESULT 4
US-10-057-136-6
; Sequence 6, Application US/10057136
; Publication No. US20030021770A1
; GENERAL INFORMATION:
```

```
; APPLICANT: SCHLOM, JEFFREY
; APPLICANT: KANTOR, JUDITH
; APPLICANT: KUFE, DONALD
; APPLICANT: PANICALI, DENNIS
; APPLICANT: GRITZ, LINDA
; TITLE OF INVENTION: RECOMBINANT POX VIRUS FOR IMMUNIZATION AGAINST MUC1
; TITLE OF INVENTION: TUMOR-ASSOCIATED ANTIGEN
; FILE REFERENCE: 700953/47113C
; CURRENT APPLICATION NUMBER: US/10/057,136
; CURRENT FILING DATE: 2002-01-25
; PRIOR APPLICATION NUMBER: 09/366,670
; PRIOR FILING DATE: 1999-08-03
; PRIOR APPLICATION NUMBER: PCT/US98/03693
; PRIOR FILING DATE: 1998-02-24
; PRIOR APPLICATION NUMBER: 60/038,253
; PRIOR FILING DATE: 1997-02-24
; NUMBER OF SEQ ID NOS: 20
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 6
; LENGTH: 60
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-057-136-6
```

```
Query Match      60.0%; Score 36; DB 5; Length 60;
Best Local Similarity 75.0%; Pred. No. 0.0014;
Matches 45; Conservative 0; Mismatches 15; Indels 0; Gaps 0;
```

```
QY 1 GGGTCGACTGCCCTCCGGCGCATGTGTGACTCAGCTCCTGACACACAGGCCAGCCCC 60
    |||||
DB 1 GGCTCAACAGCTCTCCCGCTCATGGGTTACTTGTGCTCCAGATACCTGCCAGCTCCA 60
```

```
RESULT 5
US-10-057-136-4
; Sequence 4, Application US/10057136
; Publication No. US20030021770A1
; GENERAL INFORMATION:
```

```
; APPLICANT: SCHLOM, JEFFREY
; APPLICANT: KANTOR, JUDITH
; APPLICANT: KUFE, DONALD
; APPLICANT: PANICALI, DENNIS
; APPLICANT: GRITZ, LINDA
; TITLE OF INVENTION: RECOMBINANT POX VIRUS FOR IMMUNIZATION AGAINST MUC1
; TITLE OF INVENTION: TUMOR-ASSOCIATED ANTIGEN
; FILE REFERENCE: 700953/47113C
; CURRENT APPLICATION NUMBER: US/10/057,136
; CURRENT FILING DATE: 2002-01-25
; PRIOR APPLICATION NUMBER: 09/366,670
; PRIOR FILING DATE: 1999-08-03
; PRIOR APPLICATION NUMBER: PCT/US98/03693
; PRIOR FILING DATE: 1998-02-24
; PRIOR APPLICATION NUMBER: 60/038,253
; PRIOR FILING DATE: 1997-02-24
; NUMBER OF SEQ ID NOS: 20
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 4
; LENGTH: 60
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-057-136-4
```

```
Query Match      59.0%; Score 35.4; DB 5; Length 60;
Best Local Similarity 79.2%; Pred. No. 0.0023;
Matches 42; Conservative 0; Mismatches 11; Indels 0; Gaps 0;
```

```
QY 7 ACTGCCCTCCGGCGCATGTGTGACTCAGCTCCTGACACACAGGCCAGCCCC 59
    |||||
DB 7 ACTGACCACTCCGGCGCATGTGTGACTCAGCTCCTGATACACAGACCTGCACC 59
```

```
RESULT 6
US-10-057-136-7
```

```
; Sequence 7, Application US/10057136
; Publication No. US20030021770A1
; GENERAL INFORMATION:
; APPLICANT: SCHLOM, JEFFREY
; APPLICANT: KANTOR, JUDITH
; APPLICANT: KUFE, DONALD
; APPLICANT: PANICALI, DENNIS
; APPLICANT: GRITZ, LINDA
; TITLE OF INVENTION: RECOMBINANT POX VIRUS FOR IMMUNIZATION AGAINST MUC1
; FILE REFERENCE: 700953/47113C
; CURRENT FILING DATE: 2002-01-25
; PRIOR FILING DATE: 1999-08-03
; PRIOR APPLICATION NUMBER: PCT/US98/03693
; PRIOR FILING DATE: 1998-02-24
; PRIOR APPLICATION NUMBER: 60/038,253
; PRIOR FILING DATE: 1997-02-24
; NUMBER OF SEQ ID NOS: 20
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 7
; LENGTH: 60
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-057-136-7
```

```
Query Match          58.3%; Score 35; DB 5; Length 60;
Best Local Similarity 74.6%; Pred. No. 0.0033;
Matches 44; Conservative 0; Mismatches 15; Indels 0; Gaps 0;
```

```
OY      1 GGGTCGACTGCCCCCTCCGGCGCATGCTGACCTCCTGACACAGGCCAGCCCC 59
      |||||
Db      1 GGTTCGACGCGCCCCCTGCTCAGCGTGTACATCGCCCGGATACAGACCGGCCCC 59
```

RESULT 7

```
US-10-057-136-13
; Sequence 13, Application US/10057136
; Publication No. US20030021770A1
; GENERAL INFORMATION:
; APPLICANT: SCHLOM, JEFFREY
; APPLICANT: KANTOR, JUDITH
; APPLICANT: KUFE, DONALD
; APPLICANT: PANICALI, DENNIS
; APPLICANT: GRITZ, LINDA
; TITLE OF INVENTION: RECOMBINANT POX VIRUS FOR IMMUNIZATION AGAINST MUC1
; FILE REFERENCE: 700953/47113C
; CURRENT FILING DATE: 2002-01-25
; PRIOR FILING DATE: 1999-08-03
; PRIOR APPLICATION NUMBER: PCT/US98/03693
; PRIOR FILING DATE: 1998-02-24
; PRIOR APPLICATION NUMBER: 60/038,253
; PRIOR FILING DATE: 1997-02-24
; NUMBER OF SEQ ID NOS: 20
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 13
; LENGTH: 78
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-057-136-13
```

```
Query Match          58.3%; Score 35; DB 5; Length 78;
Best Local Similarity 74.6%; Pred. No. 0.0033;
Matches 44; Conservative 0; Mismatches 15; Indels 0; Gaps 0;
```

```
OY      1 GGGTCGACTGCCCCCTCCGGCGCATGCTGACCTCCTGACACAGGCCAGCCCC 59
      |||||
Db      1 GGCTCACCAGCCCGCCAGCCCGGATGTCACCTCGGCCCGGACACAGGGGGCCCC 59
```

```
RESULT 8
US-10-635-211-3
; Sequence 3, Application US/10635211
; Publication No. US20050031649A1
; GENERAL INFORMATION:
; APPLICANT: Beijing HYDVAX Biotechnology Co. Ltd
; TITLE OF INVENTION: A recombinant fusion protein comprising BCG heat shock protein 65
; FILE REFERENCE: FP03012US
; CURRENT FILING DATE: 2003-08-06
; NUMBER OF SEQ ID NOS: 9
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 3
; LENGTH: 120
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (1)..(120)
US-10-635-211-3
```

```
Query Match          58.3%; Score 35; DB 8; Length 120;
Best Local Similarity 74.6%; Pred. No. 0.0033;
Matches 44; Conservative 0; Mismatches 15; Indels 0; Gaps 0;
```

```
OY      1 GGGTCGACTGCCCCCTCCGGCGCATGCTGACCTCCTGACACAGGCCAGCCCC 59
      |||||
Db      1 GGTTCACCGCTCCGCGGCTCAGCGTGTACCTCTGCTCCGACACCCGTCGGCTCC 59
```

RESULT 9

```
US-10-635-211-8/c
; Sequence 8, Application US/10635211
; Publication No. US20050031649A1
; GENERAL INFORMATION:
; APPLICANT: Beijing HYDVAX Biotechnology Co. Ltd
; TITLE OF INVENTION: A recombinant fusion protein comprising BCG heat shock protein 65
; FILE REFERENCE: FP03012US
; CURRENT FILING DATE: 2003-08-06
; NUMBER OF SEQ ID NOS: 9
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 8
; LENGTH: 162
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Primer
US-10-635-211-8
```

```
Query Match          58.3%; Score 35; DB 8; Length 162;
Best Local Similarity 74.6%; Pred. No. 0.0033;
Matches 44; Conservative 0; Mismatches 15; Indels 0; Gaps 0;
```

```
OY      1 GGGTCGACTGCCCCCTCCGGCGCATGCTGACCTCCTGACACAGGCCAGCCCC 59
      |||||
Db      138 GGTTCACCGCTCCGCGGCTCAGCGTGTACCTCTGCTCCGACACCCGTCGGCTCC 80
```

```
RESULT 10
US-09-864-864-258
; Sequence 258, Application US/09864864
; Patent No. US20020102679A1
; GENERAL INFORMATION:
```

```
; APPLICANT: Xu, Jiangchun
; APPLICANT: Mitcham, Jennifer L.
; APPLICANT: Harlocker, Susan L.
; APPLICANT: Dillon, Davin C.
; APPLICANT: Secrist, Heather
; APPLICANT: Lodes, Michael J.
```

```
; APPLICANT: Algate, Paul A.
; APPLICANT: Fling, Steve P.
; APPLICANT: Mannion, Jane
; APPLICANT: Benson, Darin R.
; APPLICANT: Carter, Darrick
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
; FILE REFERENCE: 210121.523
; CURRENT FILING DATE: 2001-05-23
; NUMBER OF SEQ ID NOS: 341
; SOFTWARE: Corixa Invention Disclosure Database
; SEQ ID NO 258
; LENGTH: 164
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)...(164)
; OTHER INFORMATION: n = A,T,C or G
US-09-864-864-258
```

```
Query Match          54.7%; Score 32.8; DB 3; Length 164;
Best Local Similarity 67.8%; Pred. No. 0.022;
Matches 40; Conservative 0; Mismatches 19; Indels 0; Gaps 0;
```

```
QY 1 GGGTCGACTGCCCCCTCCGGCGCATGTGTGACTCAGCTCTGACACACAGGCCAGCCCC 59
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 103 GGTTCANCGCCGCCNCCAGNCCACNGTGTNACTCGGCCCNCGACACCATGTGGAGCCC 161
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```
RESULT 11
US-10-057-136-5
```

```
; Sequence 5, Application US/10057136
; Publication No. US20030021770A1
; GENERAL INFORMATION:
; APPLICANT: SCHIOM, JEFFREY
; APPLICANT: KANTOR, JUDITH
; APPLICANT: KUFE, DONALD
; APPLICANT: PANICALI, DENNIS
; APPLICANT: GRITZ, LINDA
; TITLE OF INVENTION: RECOMBINANT POX VIRUS FOR IMMUNIZATION AGAINST MUC1
; FILE REFERENCE: 700953/47113C
; CURRENT FILING DATE: 2002-01-25
; PRIOR FILING DATE: 1999-08-03
; PRIOR FILING DATE: 1999-08-03
; PRIOR FILING DATE: 1998-02-24
; PRIOR FILING DATE: 1997-02-24
; NUMBER OF SEQ ID NOS: 20
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 5
; LENGTH: 60
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-057-136-5
```

```
Query Match          53.0%; Score 31.8; DB 5; Length 60;
Best Local Similarity 71.2%; Pred. No. 0.051;
Matches 42; Conservative 0; Mismatches 17; Indels 0; Gaps 0;
```

```
QY 1 GGGTCGACTGCCCCCTCCGGCGCATGTGTGACTCAGCTCTGACACACAGGCCAGCCCC 59
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 1 GGATCCACCGCGCGCTGCGCAGCAGAGTGACGTGCGCGCCCGACACAGCGCCCGCTCC 59
```

```
RESULT 12
US-10-057-136-11
; Sequence 11, Application US/10057136
; Publication No. US20030021770A1
```

```
; GENERAL INFORMATION:
; APPLICANT: SCHIOM, JEFFREY
; APPLICANT: KANTOR, JUDITH
; APPLICANT: KUFE, DONALD
; APPLICANT: PANICALI, DENNIS
; APPLICANT: GRITZ, LINDA
; TITLE OF INVENTION: RECOMBINANT POX VIRUS FOR IMMUNIZATION AGAINST MUC1
; FILE REFERENCE: 700953/47113C
; CURRENT FILING DATE: 2002-01-25
; PRIOR FILING DATE: 1999-08-03
; PRIOR FILING DATE: 1999-08-03
; PRIOR FILING DATE: 1998-02-24
; PRIOR FILING DATE: 1997-02-24
; NUMBER OF SEQ ID NOS: 20
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 11
; LENGTH: 60
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-057-136-11
```

```
Query Match          53.0%; Score 31.8; DB 5; Length 60;
Best Local Similarity 71.2%; Pred. No. 0.051;
Matches 42; Conservative 0; Mismatches 17; Indels 0; Gaps 0;
```

```
QY 1 GGGTCGACTGCCCCCTCCGGCGCATGTGTGACTCAGCTCTGACACACAGGCCAGCCCC 59
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 1 GGTCAACGGCACCCTCCAGCAGACAGGAGTCAGTGTGACACCCGACACCCGCTCCAGCTCC 59
```

```
RESULT 13
US-10-471-607-4/c
```

```
; Sequence 4, Application US/10471607
; Publication No. US20040115740A1
; GENERAL INFORMATION:
; APPLICANT: The Victoria University of Manchester
; APPLICANT: Benson, Roderick
; TITLE OF INVENTION: Intracellular analysis.
; FILE REFERENCE: P088857PMO
; CURRENT FILING DATE: 2003-09-24
; PRIOR FILING DATE: GB 0108165.2
; NUMBER OF SEQ ID NOS: 16
; SOFTWARE: Patentin version 3.1
; SEQ ID NO 4
; LENGTH: 93
; TYPE: DNA
; ORGANISM: Artificial
; FEATURE:
; OTHER INFORMATION: Artificial epitope construct
US-10-471-607-4
```

```
Query Match          52.3%; Score 31.4; DB 7; Length 93;
Best Local Similarity 77.6%; Pred. No. 0.072;
Matches 38; Conservative 0; Mismatches 11; Indels 0; Gaps 0;
```

```
QY 1 GGGTCGACTGCCCCCTCCGGCGCATGTGTGACTCAGCTCTGACACAA 49
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 57 GGCTCAACGACCCCCCGCAGCTCATGTGTCACTCAGCTCCGAGTGA 9
```

```
RESULT 14
US-10-471-607-6
; Sequence 6, Application US/10471607
; Publication No. US20040115740A1
; GENERAL INFORMATION:
; APPLICANT: The Victoria University of Manchester
; APPLICANT: Benson, Roderick
```



```
; TITLE OF INVENTION: Intracellular analysis.
; FILE REFERENCE: P088857PMO
; CURRENT APPLICATION NUMBER: US/10/471,607
; CURRENT FILING DATE: 2003-09-24
; PRIOR APPLICATION NUMBER: GB 0108165.2
; PRIOR FILING DATE: 3001-03-21
; NUMBER OF SEQ ID NOS: 16
; SOFTWARE: Patentln version 3.1
; SEQ ID NO 6
; LENGTH: 157
; TYPE: DNA
; ORGANISM: Artificial
; FEATURE:
; OTHER INFORMATION: Artificial epitope construct
US-10-471-607-6
```

```
Query Match      52.3%; Score 31.4; DB 7; Length 157;
Best Local Similarity 77.6%; Pred. No. 0.073;
Matches 38; Conservative 0; Mismatches 11; Indels 0; Gaps 0;
```

```
QY      1 GGGTCGACTGCCCTCCGGCGCATGCTGTGACCTCAGCTCCTGACACAA 49
      |||||
Db      101 GGCTCAACAGCCGCCCGAGCTCATGTGTCTACCTCAGCTCCCGAGTCGA 149
```

RESULT 15

```
US-10-471-607-9
; Sequence 9, Application US/10471607
; Publication No. US20040115740A1
; GENERAL INFORMATION:
; APPLICANT: The Victoria University of Manchester
; APPLICANT: Benson, Roderick
; TITLE OF INVENTION: Intracellular analysis.
; FILE REFERENCE: P088857PMO
; CURRENT APPLICATION NUMBER: US/10/471,607
; CURRENT FILING DATE: 2003-09-24
; PRIOR APPLICATION NUMBER: GB 0108165.2
; PRIOR FILING DATE: 3001-03-21
; NUMBER OF SEQ ID NOS: 16
; SOFTWARE: Patentln version 3.1
; SEQ ID NO 9
; LENGTH: 157
; TYPE: DNA
; ORGANISM: Artificial
; FEATURE:
; OTHER INFORMATION: Artificial epitope construct
US-10-471-607-9
```

```
Query Match      47.0%; Score 28.2; DB 7; Length 157;
Best Local Similarity 73.5%; Pred. No. 1.1;
Matches 36; Conservative 0; Mismatches 13; Indels 0; Gaps 0;
```

```
QY      1 GGGTCGACTGCCCTCCGGCGCATGCTGTGACCTCAGCTCCTGACACAA 49
      |||||
Db      101 GGCTCAACAGCCGCCCGAGCTCATGTGTCTACCTCAGCTCCCGAGTCGA 149
```

Search completed: March 27, 2006, 17:07:48
Job time : 372.4 secs

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OM nucleic - nucleic search, using sw model

Run on: March 27, 2006, 13:48:29 ; Search time 55.5 Seconds
(without alignments)
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Perfect score: 60
Sequence: 1 GGGTCGACTGCCCTCCGCGC.....CTGACACAGGCCAGCCCA 60

Scoring table: IDENTITY NUC
Gapop 10.0 , Gapext 1.0

Searched: 1303057 seqs, 888780828 residues

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Listing first 45 summaries

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	33.8	56.3	60	3	US-09-475-947A-246 Sequence 246, App
2	25	41.7	68	3	US-09-304-967-57 Sequence 57, Appl
3	24.4	40.7	467	3	US-09-016-434-1158 Sequence 1158, Ap
4	24.4	40.7	469	3	US-09-949-016-2546 Sequence 2546, Ap
5	24.4	40.7	469	3	US-09-949-016-2547 Sequence 2547, Ap
6	24.4	40.7	498	3	US-09-949-016-2548 Sequence 2548, Ap
7	24.4	40.7	498	3	US-09-949-016-2549 Sequence 2549, Ap
8	24.2	40.3	78	3	US-09-304-967-96 Sequence 96, Appl
9	23.4	39.0	346	3	US-09-513-999C-251 Sequence 251, Appl
10	23.4	39.0	416	3	US-09-513-999C-8438 Sequence 8438, Ap
11	23.2	38.7	68	3	US-09-304-967-51 Sequence 51, Appl
12	23.2	38.7	68	3	US-09-304-967-55 Sequence 55, Appl
13	23.2	38.7	78	3	US-09-304-967-94 Sequence 94, Appl
14	23.2	38.7	78	3	US-09-304-967-100 Sequence 100, Appl
15	23.2	38.7	83	3	US-09-304-967-79 Sequence 79, Appl
16	23.2	38.7	258	3	US-09-513-999C-9477 Sequence 9477, Ap
17	22.8	38.0	401	3	US-09-621-976-8387 Sequence 8387, Ap
18	22.6	37.7	68	3	US-09-304-967-53 Sequence 53, Appl
19	22.6	37.7	83	3	US-09-304-967-75 Sequence 75, Appl
20	22.4	37.3	319	3	US-09-132-316-10 Sequence 10, Appl
21	22.4	37.3	319	3	US-09-132-316-40 Sequence 40, Appl
22	22.4	37.3	319	3	US-10-137-316-10 Sequence 10, Appl
23	22.4	37.3	319	3	US-10-137-316-40 Sequence 40, Appl
24	22.2	37.0	48	3	US-09-304-967-47 Sequence 47, Appl

25	22.2	37.0	48	3	US-09-304-967-67	Sequence 67, Appl
26	22.2	37.0	48	3	US-09-304-967-90	Sequence 90, Appl
27	22.2	37.0	68	3	US-09-304-967-49	Sequence 49, Appl
28	22.2	37.0	78	3	US-09-304-967-92	Sequence 92, Appl
29	22.2	37.0	78	3	US-09-304-967-98	Sequence 98, Appl
30	22.2	37.0	78	3	US-09-304-967-102	Sequence 102, Appl
31	22.2	37.0	83	3	US-09-304-967-69	Sequence 69, Appl
32	22.2	37.0	83	3	US-09-304-967-71	Sequence 71, Appl
33	22.2	37.0	83	3	US-09-304-967-73	Sequence 73, Appl
34	22.2	37.0	83	3	US-09-304-967-77	Sequence 77, Appl
35	22	36.7	89	3	US-09-270-767-4823	Sequence 4823, Ap
36	22	36.7	89	3	US-09-270-767-20105	Sequence 20105, A
37	22	36.7	162	3	US-09-270-767-31560	Sequence 31560, A
38	21.8	36.3	434	3	US-09-470-191-65	Sequence 65, Appl
39	21.6	36.0	357	3	US-09-513-999C-549	Sequence 549, App
40	21.6	36.0	387	3	US-09-280-116-41	Sequence 41, Appl
41	21.4	35.7	297	3	US-09-614-474-9	Sequence 9, Appli
42	21.4	35.7	381	3	US-09-902-540-4879	Sequence 4879, Ap
43	21.4	35.7	486	3	US-09-902-540-2816	Sequence 2816, Ap
44	21.4	35.7	492	3	US-09-252-991A-4403	Sequence 4403, Ap
45	21.2	35.3	220	3	US-09-132-316-56	Sequence 56, Appl

ALIGNMENTS

RESULT 1
US-09-475-947A-246
Sequence 246, Application US/09475947A
Patent No. 6472154
GENERAL INFORMATION:
APPLICANT: Garner, Harold R.
APPLICANT: Wren, Jonathan D.
APPLICANT: Minna, John D.
TITLE OF INVENTION: Polymorphic Repeats in Human Genes
FILE REFERENCE: UTS0667
CURRENT APPLICATION NUMBER: US/09/475, 947A
CURRENT FILING DATE: 1999-12-31
NUMBER OF SEQ ID NOS: 346
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 246
LENGTH: 60
TYPE: DNA
ORGANISM: human
US-09-475-947A-246

Query Match 56.3%; Score 33.8; DB 3; Length 60;
Best Local Similarity 77.4%; Pred. No. 0.063;
Matches 41; Conservative 0; Mismatches 12; Indels 0; Gaps 0;

Qy 1 GGGTCGACTGCCCTCCGCGCATGTGTGACCTCCTGACACAGGCC 53
Db 7 GGCTCCACCGCCCCCGCCAGCCGATGTCTCCTCGGCCCGACACAGGCC 59

RESULT 2
US-09-304-967-57
Sequence 57, Application US/09304967
Patent No. 6884623
GENERAL INFORMATION:
APPLICANT: Lomonosoff, George P.
APPLICANT: Johnson, John E.
APPLICANT: Bendig, Mary
APPLICANT: Jones, Tim
TITLE OF INVENTION: Modified Plant Viruses as Vectors of Heterologous
FILE REFERENCE: DOW-04646
CURRENT APPLICATION NUMBER: US/09/304, 967
CURRENT FILING DATE: 1999-05-05
PRIOR APPLICATION NUMBER: 08/471, 048
PRIOR FILING DATE: 1995-06-06
PRIOR APPLICATION NUMBER: 08/612, 858

;; PRIOR FILING DATE: 1996-03-12
;; PRIOR APPLICATION NUMBER: 08/137,032
;; PRIOR FILING DATE: 1993-03-18
;; PRIOR APPLICATION NUMBER: PCT/GB20/00589
;; PRIOR FILING DATE: 1992-04-02
;; NUMBER OF SEQ ID NOS: 123
;; SOFTWARE: PatentIn Ver. 2.0
;; SEQ ID NO 57
;; LENGTH: 68
;; TYPE: DNA
;; ORGANISM: Artificial Sequence
;; FEATURE:
;; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
US-09-304-967-57

Query Match 41.7%; Score 25; DB 3; Length 68;
Best Local Similarity 69.4%; Pred. No. 43;
Matches 34; Conservative 0; Mismatches 15; Indels 0; Gaps 0;

QY 11 CCCCTCCGCGCATGTGTGACTCAGCTCCTGACACAGGCCAGCCCC 59
DB 4 CCTCTAGACTGCTGTGTACTTCTGTCTCTGATAGACTGCTCC 52

RESULT 3
US-09-016-434-1158
; Sequence 1158, Application US/09016434
; Patent No. 6500938
; GENERAL INFORMATION:
; APPLICANT: Janice Au-Young
; APPLICANT: Jeffrey J. Selhamer
; TITLE OF INVENTION: COMPOSITION FOR THE DETECTION OF SIGNALING
; TITLE OF INVENTION: PATHWAY GENE EXPRESSION
; NUMBER OF SEQUENCES: 1490
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: INCYTE PHARMACEUTICALS, INC.
; STREET: 3174 PORTER DRIVE
; CITY: PALO ALTO
; STATE: CALIFORNIA
; COUNTRY: USA
; ZIP: 94304
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Word Perfect 6.1 for Windows/MS-DOS 6.2
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/016,434
; FILING DATE: HERewith
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: Zeller, Karen J.
; REGISTRATION NUMBER: 37,071
; REFERENCE/DOCKET NUMBER: PA-0002 US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (650) 855-0555
; TELEFAX: (650) 845-4166
; INFORMATION FOR SEQ ID NO: 1158:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 467 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; IMMEDIATE SOURCE:
; LIBRARY: GENBANK
; CLONE: g1575003
US-09-016-434-1158

Query Match 40.7%; Score 24.4; DB 3; Length 467;

Best Local Similarity 63.8%; Pred. No. 84;
Matches 37; Conservative 0; Mismatches 21; Indels 0; Gaps 0;

QY 3 GTCCAGTCCCTCCGCGCATGTGTGACTCAGCTCCTGACACAGGCCAGCCCCA 60
DB 334 GTCCCGTCACTCCAGCGCTTGGCTGAAGAAGCTCCAGACTCAATGTGACCCCA 391

RESULT 4
US-09-949-016-2546
; Sequence 2546, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2546
; LENGTH: 469
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-2546

Query Match 40.7%; Score 24.4; DB 3; Length 469;
Best Local Similarity 63.8%; Pred. No. 85;
Matches 37; Conservative 0; Mismatches 21; Indels 0; Gaps 0;

QY 3 GTCCAGTCCCTCCGCGCATGTGTGACTCAGCTCCTGACACAGGCCAGCCCCA 60
DB 336 GTCCCGTCACTCCAGCGCTTGGCTGAAGAAGCTCCAGACTCAATGTGACCCCA 393

RESULT 5
US-09-949-016-2547
; Sequence 2547, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2547
; LENGTH: 469
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-2547

Query Match 40.7%; Score 24.4; DB 3; Length 469;
Best Local Similarity 63.8%; Pred. No. 85;
Matches 37; Conservative 0; Mismatches 21; Indels 0; Gaps 0;

QY 3 GTCCAGTCCCTCCGCGCATGTGTGACTCAGCTCCTGACACAGGCCAGCCCCA 60
DB 336 GTCCCGTCACTCCAGCGCTTGGCTGAAGAAGCTCCAGACTCAATGTGACCCCA 393

Db 336 GTCCCCGTCACTGCCAGCGCTTGGGCTGAAGAGCTCCAGACTCAATGTGACCCCA 393

RESULT 6

US-09-949-016-2548
; Sequence 2548, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2548
; LENGTH: 498
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-2548

Query Match 40.7%; Score 24.4; DB 3; Length 498;
Best Local Similarity 63.8%; Pred. No. 85;
Matches 37; Conservative 0; Mismatches 21; Indels 0; Gaps 0;

QY 3 GTGACTGCCCCCTCCGGCGCATGTGTGACCTCCTGTGACACAGGCCAGCCCA 60
Db 365 GTCCCCGTCACTGCCAGCGCTTGGGCTGAAGAGCTCCAGACTCAATGTGACCCCA 422

RESULT 7

US-09-949-016-2549
; Sequence 2549, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2549
; LENGTH: 498
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-2549

Query Match 40.7%; Score 24.4; DB 3; Length 498;
Best Local Similarity 63.8%; Pred. No. 85;
Matches 37; Conservative 0; Mismatches 21; Indels 0; Gaps 0;

QY 3 GTGACTGCCCCCTCCGGCGCATGTGTGACCTCCTGTGACACAGGCCAGCCCA 60
Db 365 GTCCCCGTCACTGCCAGCGCTTGGGCTGAAGAGCTCCAGACTCAATGTGACCCCA 422

RESULT 8
US-09-304-967-96

; Sequence 96, Application US/09304967

; Patent No. 6884623
; GENERAL INFORMATION:
; APPLICANT: Lomonosoff, George P.
; APPLICANT: Johnson, John B.
; APPLICANT: Bendig, Mary
; APPLICANT: Jones, Tim
; APPLICANT: Longstaffe, Marian
; TITLE OF INVENTION: Modified Plant Viruses as Vectors of Heterologous
; TITLE OF INVENTION: Peptides
; FILE REFERENCE: DOW-04646
; CURRENT APPLICATION NUMBER: US/09/304,967
; CURRENT FILING DATE: 1999-05-05
; PRIOR APPLICATION NUMBER: 08/471,048
; PRIOR FILING DATE: 1995-06-06
; PRIOR APPLICATION NUMBER: 08/612,858
; PRIOR FILING DATE: 1996-03-12
; PRIOR APPLICATION NUMBER: 08/137,032
; PRIOR FILING DATE: 1993-03-18
; PRIOR APPLICATION NUMBER: PCT/GB20/00589
; PRIOR FILING DATE: 1992-04-02
; NUMBER OF SEQ ID NOS: 123
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 96
; LENGTH: 78
; TYPE: DNA
; ORGANISM: Red clover necrotic mosaic virus
US-09-304-967-96

Query Match 40.3%; Score 24.2; DB 3; Length 78;
Best Local Similarity 78.4%; Pred. No. 80;
Matches 29; Conservative 0; Mismatches 8; Indels 0; Gaps 0;

QY 23 ATGTGTGACCTCAGCTCCTGTGACACAGGCCAGCCCA 59
Db 15 ATGTGTACTTCTGCTCCTGATACTAGACCTGCTCC 51

RESULT 9

US-09-513-999C-251
; Sequence 251, Application US/09513999C
; Patent No. 6783961
; GENERAL INFORMATION:
; APPLICANT: Dumas Milne Edwards, J.B.
; APPLICANT: Duclert, A.
; APPLICANT: Giordano, J.Y.
; TITLE OF INVENTION: Expressed Sequence Tags and Encoded Human Proteins.
; FILE REFERENCE: 59.US2.REG
; CURRENT APPLICATION NUMBER: US/09/513,999C
; CURRENT FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: US 60/122,487
; PRIOR FILING DATE: 1999-02-26
; NUMBER OF SEQ ID NOS: 36681
; SOFTWARE: Patent.pm
; SEQ ID NO 251
; LENGTH: 346
; TYPE: DNA
; ORGANISM: Homo sapiens

; FEATURE:
; NAME/KEY: CDS
; LOCATION: 147..344
; FEATURE:
; NAME/KEY: sig_peptide
; LOCATION: 147..194
; OTHER INFORMATION: score 10.5
; OTHER INFORMATION: seq LmRLVSLALSLQA/LP
; NAME/KEY: misc_feature
; LOCATION: 96
; OTHER INFORMATION: n=a, g, c or t
; FEATURE:
; NAME/KEY: misc_feature

```
; LOCATION: 294
; OTHER INFORMATION: n=a, g, c or t
; FEATURE:
; NAME/KEY: UNSURE
; LOCATION: 34
; OTHER INFORMATION: Xaa=Leu or Met or Val
US-09-513-999C-251
```

```
Query Match
Best Local Similarity 39.0%; Score 23.4; DB 3; Length 346;
Best Local Similarity 67.3%; Pred. No. 1.7e+02;
Matches 33; Conservative 0; Mismatches 16; Indels 0; Gaps 0;
```

```
QY 10 GCCCCTCCGGCGCATGTGTGACCTCAGCTCTGACACAGGCCAGCCCC 58
DB 152 GCCCCTGTGGCGCCTCGTGTCTGTCTGTGCGCCTGAGCCAGGCCCTGCCC 200
```

RESULT 10

```
US-09-513-999C-8438
; Sequence 8438, Application US/09513999C
; Patent No. 6783961
```

GENERAL INFORMATION:

APPLICANT: Dumas Milne Edwards, J.B.

APPLICANT: Duclert, A.

APPLICANT: Giordano, J.Y.

TITLE OF INVENTION: Expressed Sequence Tags and Encoded Human Proteins.

Patent No. 6783961

FILE REFERENCE: 59.US2.REG

CURRENT APPLICATION NUMBER: US/09/513,999C

CURRENT FILING DATE: 2000-02-24

PRIOR APPLICATION NUMBER: US 60/122,487

PRIOR FILING DATE: 1999-02-26

NUMBER OF SEQ ID NOS: 36681

SOFTWARE: Patent.pm

SEQ ID NO 8438

LENGTH: 416

TYPE: DNA

ORGANISM: Homo sapiens

FEATURE:

NAME/KEY: misc_feature

LOCATION: 315

OTHER INFORMATION: s=g or c

FEATURE:

NAME/KEY: misc_feature

LOCATION: 316

OTHER INFORMATION: s=g or c

US-09-513-999C-8438

```
Query Match
Best Local Similarity 39.0%; Score 23.4; DB 3; Length 416;
Best Local Similarity 67.3%; Pred. No. 1.7e+02;
Matches 33; Conservative 0; Mismatches 16; Indels 0; Gaps 0;
```

```
QY 10 GCCCCTCCGGCGCATGTGTGACCTCAGCTCTGACACAGGCCAGCCCC 58
DB 152 GCCCCTGTGGCGCCTCGTGTCTGTCTGTGCGCCTGAGCCAGGCCCTGCCC 200
```

RESULT 11

```
US-09-304-967-51
; Sequence 51, Application US/09304967
; Patent No. 6884623
```

GENERAL INFORMATION:

APPLICANT: Lomonosoff, George P.

APPLICANT: Johnson, John E.

APPLICANT: Bendig, Mary

APPLICANT: Jones, Tim

APPLICANT: Longstaff, Marian

TITLE OF INVENTION: Modified Plant Viruses as Vectors of Heterologous

TITLE OF INVENTION: Peptides

FILE REFERENCE: DOW-04646

CURRENT APPLICATION NUMBER: US/09/304,967

CURRENT FILING DATE: 1999-05-05

PRIOR APPLICATION NUMBER: 08/471,048

```
; PRIOR FILING DATE: 1995-06-06
; PRIOR APPLICATION NUMBER: 08/612,858
; PRIOR FILING DATE: 1996-03-12
; PRIOR APPLICATION NUMBER: 08/137,032
; PRIOR FILING DATE: 1993-03-18
; PRIOR APPLICATION NUMBER: PCT/GB20/00589
; PRIOR FILING DATE: 1992-04-02
; NUMBER OF SEQ ID NOS: 123
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 51
; LENGTH: 68
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
US-09-304-967-51
```

```
Query Match
Best Local Similarity 38.7%; Score 23.2; DB 3; Length 68;
Best Local Similarity 77.8%; Pred. No. 1.6e+02;
Matches 28; Conservative 0; Mismatches 8; Indels 0; Gaps 0;
```

```
QY 24 TGGTGTGACCTCAGCTCCTGACACAGGCCAGCCCC 59
DB 8 TGGTGTACTTCTGTCTCTGATAGCTGCTCC 43
```

RESULT 12

```
US-09-304-967-55
; Sequence 55, Application US/09304967
; Patent No. 6884623
```

GENERAL INFORMATION:

APPLICANT: Lomonosoff, George P.

APPLICANT: Johnson, John E.

APPLICANT: Bendig, Mary

APPLICANT: Jones, Tim

APPLICANT: Longstaff, Marian

TITLE OF INVENTION: Modified Plant Viruses as Vectors of Heterologous

TITLE OF INVENTION: Peptides

FILE REFERENCE: DOW-04646

CURRENT APPLICATION NUMBER: US/09/304,967

CURRENT FILING DATE: 1999-05-05

PRIOR APPLICATION NUMBER: 08/471,048

PRIOR FILING DATE: 1995-06-06

PRIOR APPLICATION NUMBER: 08/612,858

PRIOR FILING DATE: 1996-03-12

PRIOR APPLICATION NUMBER: 08/137,032

PRIOR FILING DATE: 1993-03-18

PRIOR APPLICATION NUMBER: PCT/GB20/00589

PRIOR FILING DATE: 1992-04-02

NUMBER OF SEQ ID NOS: 123

SOFTWARE: Patentin Ver. 2.0

SEQ ID NO 55

LENGTH: 68

TYPE: DNA

ORGANISM: Artificial Sequence

FEATURE:

OTHER INFORMATION: Description of Artificial Sequence: Synthetic

US-09-304-967-55

```
Query Match
Best Local Similarity 38.7%; Score 23.2; DB 3; Length 68;
Best Local Similarity 77.8%; Pred. No. 1.6e+02;
Matches 28; Conservative 0; Mismatches 8; Indels 0; Gaps 0;
```

```
QY 24 TGGTGTGACCTCAGCTCCTGACACAGGCCAGCCCC 59
DB 14 TGGTGTACTTCTGTCTCTGATAGCTGCTCC 49
```

RESULT 13

```
US-09-304-967-94
; Sequence 94, Application US/09304967
; Patent No. 6884623
```

GENERAL INFORMATION:

```
; APPLICANT: Lomonosoff, George P.
; APPLICANT: Johnson, John E.
; APPLICANT: Bendig, Mary
; APPLICANT: Jones, Tim
; APPLICANT: Longstaff, Marian
; TITLE OF INVENTION: Modified Plant Viruses as Vectors of Heterologous
; TITLE OF INVENTION: Peptides
; FILE REFERENCE: DOW-04646
; CURRENT APPLICATION NUMBER: US/09/304,967
; PRIOR FILING DATE: 1999-05-05
; PRIOR APPLICATION NUMBER: 08/471,048
; PRIOR FILING DATE: 1995-06-06
; PRIOR APPLICATION NUMBER: 08/612,858
; PRIOR FILING DATE: 1996-03-12
; PRIOR APPLICATION NUMBER: 08/137,032
; PRIOR FILING DATE: 1993-03-18
; PRIOR APPLICATION NUMBER: PCT/GB20/00589
; PRIOR FILING DATE: 1992-04-02
; NUMBER OF SEQ ID NOS: 123
; SOFTWARE: Patentln Ver. 2.0
; SEQ ID NO 94
; LENGTH: 78
; TYPE: DNA
; ORGANISM: Red clover necrotic mosaic virus
US-09-304-967-94
```

```
Query Match      38.7%; Score 23.2; DB 3; Length 78;
Best Local Similarity 77.8%; Pred. No. 1.7e+02;
Matches 28; Conservative 0; Mismatches 8; Indels 0; Gaps 0;
```

```
QY      24 TGGTGTGACCTCAGCTCCTGACACAGGCCAGCCCC 59
      ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db      13 TGGTGTACTTCTGCTCCTGATACTAGACCTGCTCC 48
```

```
RESULT 14
US-09-304-967-100
; Sequence 100, Application US/09304967
; Patent No. 6884623
; GENERAL INFORMATION:
; APPLICANT: Lomonosoff, George P.
; APPLICANT: Johnson, John E.
; APPLICANT: Bendig, Mary
; APPLICANT: Jones, Tim
; APPLICANT: Longstaff, Marian
; TITLE OF INVENTION: Modified Plant Viruses as Vectors of Heterologous
; TITLE OF INVENTION: Peptides
; FILE REFERENCE: DOW-04646
; CURRENT APPLICATION NUMBER: US/09/304,967
; CURRENT FILING DATE: 1999-05-05
; PRIOR APPLICATION NUMBER: 08/471,048
; PRIOR FILING DATE: 1995-06-06
; PRIOR APPLICATION NUMBER: 08/612,858
; PRIOR FILING DATE: 1996-03-12
; PRIOR APPLICATION NUMBER: 08/137,032
; PRIOR FILING DATE: 1993-03-18
; PRIOR APPLICATION NUMBER: PCT/GB20/00589
; PRIOR FILING DATE: 1992-04-02
; NUMBER OF SEQ ID NOS: 123
; SOFTWARE: Patentln Ver. 2.0
; SEQ ID NO 100
; LENGTH: 78
; TYPE: DNA
; ORGANISM: Red clover necrotic mosaic virus
US-09-304-967-100
```

```
Query Match      38.7%; Score 23.2; DB 3; Length 78;
Best Local Similarity 77.8%; Pred. No. 1.7e+02;
Matches 28; Conservative 0; Mismatches 8; Indels 0; Gaps 0;
```

```
QY      24 TGGTGTGACCTCAGCTCCTGACACAGGCCAGCCCC 59
      ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db      22 TGGTGTACTTCTGCTCCTGATACTAGACCTGCTCC 57
```

```
RESULT 15
US-09-304-967-79
; Sequence 79, Application US/09304967
; Patent No. 6884623
; GENERAL INFORMATION:
; APPLICANT: Lomonosoff, George P.
; APPLICANT: Johnson, John E.
; APPLICANT: Bendig, Mary
; APPLICANT: Jones, Tim
; APPLICANT: Longstaff, Marian
; TITLE OF INVENTION: Modified Plant Viruses as Vectors of Heterologous
; TITLE OF INVENTION: Peptides
; FILE REFERENCE: DOW-04646
; CURRENT APPLICATION NUMBER: US/09/304,967
; CURRENT FILING DATE: 1999-05-05
; PRIOR APPLICATION NUMBER: 08/471,048
; PRIOR FILING DATE: 1995-06-06
; PRIOR APPLICATION NUMBER: 08/612,858
; PRIOR FILING DATE: 1996-03-12
; PRIOR APPLICATION NUMBER: 08/137,032
; PRIOR FILING DATE: 1993-03-18
; PRIOR APPLICATION NUMBER: PCT/GB20/00589
; PRIOR FILING DATE: 1992-04-02
; NUMBER OF SEQ ID NOS: 123
; SOFTWARE: Patentln Ver. 2.0
; SEQ ID NO 79
; LENGTH: 83
; TYPE: DNA
; ORGANISM: Lucerne transient streak virus
US-09-304-967-79
```

```
Query Match      38.7%; Score 23.2; DB 3; Length 83;
Best Local Similarity 77.8%; Pred. No. 1.7e+02;
Matches 28; Conservative 0; Mismatches 8; Indels 0; Gaps 0;
```

```
QY      24 TGGTGTGACCTCAGCTCCTGACACAGGCCAGCCCC 59
      ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db      24 TGGTGTACTTCTGCTCCTGATACTAGACCTGCTCC 59
```

Search completed: March 27, 2006, 16:33:31
Job time : 55.5 secs

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OM nucleic - nucleic search, using sw model

Run on: March 27, 2006, 13:53:26 ; Search time 321.3 Seconds
(without alignments)
744.399 Million cell updates/sec

Title: US-10-057-136A-9
Perfect score: 60
Sequence: 1 GGAAGTACCGCTCCACCTGTC.....CAGACACTCGACCTGCGCCA 60

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 9258654 seqs, 1993127192 residues

Total number of hits satisfying chosen parameters: 14431810

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Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

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15: /SIDS5/ptodata/2/pubpna/US60_NEW_PUB.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB	ID	Description
1	26	43.3	468	8	US-10-401-386B-43	Sequence 43, Appl
2	25.8	43.0	328	9	US-10-517-696-41	Sequence 41, Appl
3	24.2	40.3	447	8	US-10-821-234-481	Sequence 481, App
4	23.4	39.0	427	9	US-10-301-480-21313	Sequence 21313, A
5	23.4	39.0	427	10	US-10-301-480-634722	Sequence 634722, A
6	23.4	39.0	450	6	US-09-925-065A-590425	Sequence 590425, A
7	23.4	39.0	464	9	US-10-301-480-21312	Sequence 21312, A
8	23.4	39.0	464	10	US-10-301-480-634721	Sequence 634721, A
9	23.2	38.7	201	8	US-10-995-561-69317	Sequence 69317, A
10	23.2	38.7	201	8	US-10-995-561-69501	Sequence 69501, A
11	23	38.3	427	9	US-10-301-480-21311	Sequence 21311, A
12	23	38.3	427	10	US-10-301-480-634720	Sequence 634720, A
13	22.8	38.0	201	8	US-10-995-561-69502	Sequence 69502, A
14	22	36.7	326	10	US-10-301-480-235879	Sequence 235879, A
15	22	36.7	326	10	US-10-301-480-849288	Sequence 849288, A
16	22	36.7	327	6	US-09-925-065A-140920	Sequence 140920, A
17	21.2	35.3	201	8	US-10-995-561-5213	Sequence 5213, Ap
18	21.2	35.3	201	8	US-10-995-561-5296	Sequence 5296, Ap

19	21.2	35.3	201	8	US-10-995-561-5375	Sequence 5375, Ap
20	21.2	35.3	496	14	US-11-096-622-18	Sequence 18, Appl
21	20.8	34.7	159	6	US-09-925-065A-507267	Sequence 507267, A
22	20.8	34.7	201	8	US-10-995-561-28960	Sequence 28960, A
23	20.6	34.3	366	11	US-11-116-881A-1890	Sequence 1890, Ap
24	20.6	34.3	424	6	US-09-925-065A-474690	Sequence 474690, A
25	20.6	34.3	424	6	US-09-925-065A-474691	Sequence 474691, A
26	20.6	34.3	428	10	US-10-301-480-312359	Sequence 312359, A
27	20.6	34.3	431	10	US-10-301-480-925768	Sequence 925768, A
28	20.6	34.3	437	6	US-09-925-065A-228344	Sequence 228344, A
29	20.6	34.3	494	6	US-09-925-065A-783256	Sequence 783256, A
30	20.6	34.3	494	6	US-09-925-065A-783257	Sequence 783257, A
31	20.6	34.3	494	6	US-09-925-065A-843676	Sequence 843676, A
32	20.4	34.0	201	14	US-11-124-367A-4042	Sequence 4042, Ap
33	20.4	34.0	201	14	US-11-124-367A-4691	Sequence 4691, Ap
34	20.4	34.0	201	14	US-11-124-367A-4701	Sequence 4701, Ap
35	20.4	34.0	201	14	US-11-124-367A-26298	Sequence 26298, A
36	20.4	34.0	462	14	US-11-150-533-19	Sequence 19, Appl
37	20.2	33.7	201	8	US-10-995-561-31901	Sequence 31901, A
38	20.2	33.7	201	8	US-10-995-561-31925	Sequence 31925, A
39	20.2	33.7	201	8	US-10-995-561-78501	Sequence 78501, A
40	20.2	33.7	201	8	US-10-995-561-78530	Sequence 78530, A
41	20.2	33.7	456	9	US-10-932-182A-5324	Sequence 5324, Ap
42	20.2	33.7	456	9	US-10-932-182A-5324	Sequence 5324, Ap
43	20.2	33.7	500	6	US-09-925-065A-773679	Sequence 773679, A
44	20	33.3	64	8	US-10-939-294A-4241	Sequence 4241, Ap
45	20	33.3	201	14	US-11-124-367A-4690	Sequence 4690, Ap

ALIGNMENTS

RESULT 1
US-10-401-386B-43
; Sequence 43, Application US/10401386B
; Publication No. US20050261213A1
; GENERAL INFORMATION:
; APPLICANT: Patrick Branigan
; APPLICANT: Theresa J Goletz
; APPLICANT: David M Knight
; APPLICANT: Stephen G McCarthy
; APPLICANT: Bernard J Scallion
; APPLICANT: Linda A Snyder
; TITLE OF INVENTION: Nucleic Acid Compositions and Methods
; TITLE OF INVENTION: for Use
; FILE REFERENCE: CEN 310CIP
; CURRENT APPLICATION NUMBER: US/10/401,386B
; PRIOR FILING DATE: 2003-03-28
; PRIOR APPLICATION NUMBER: 10/247,203
; PRIOR FILING DATE: 2002-09-19
; PRIOR APPLICATION NUMBER: 60/328,371
; NUMBER OF SEQ ID NOS: 81
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 43
; LENGTH: 468
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (1)...(468)
US-10-401-386B-43

Query Match 43.3%; Score 26; DB 8; Length 468;
Best Local Similarity 70.0%; Pred. No. 8.4;
Matches 35; Conservative 0; Mismatches 15; Indels 0; Gaps 0;

QY 7 ACCGCTCACCTGCACACGGGTACACAGCGCCGACACACTGCACCTGC 56
Db 418 ACCGCCCCCCACGCCACGGTGTCACTCGGCCCGACACCCAGGCCGCGC 467

RESULT 2

US-10-517-696-41
; Sequence 41, Application US/10517696
; Publication No. US20060051759A1
; GENERAL INFORMATION:
; APPLICANT: diadexus, Inc.
; APPLICANT: Salceda, Susana
; APPLICANT: Macina, Roberto A.
; APPLICANT: Turner, Leah R.
; APPLICANT: Sun, Yongming
; APPLICANT: Liu, Chenghua
; TITLE OF INVENTION: Compositions and Methods Relating to Breast Specific Genes and Pr
; FILE REFERENCE: DEX-0432
; CURRENT APPLICATION NUMBER: US/10/517,696
; CURRENT FILING DATE: 2004-12-13
; PRIOR APPLICATION NUMBER: US 60/389,327
; PRIOR FILING DATE: 2002-06-14
; NUMBER OF SEQ ID NOS: 171
; SOFTWARE: Patentin version 3.1
; SEQ ID NO 41
; LENGTH: 328
; TYPE: DNA
; ORGANISM: Homo sapien
US-10-517-696-41

Query Match 43.0%; Score 25.8; DB 9; Length 328;
Best Local Similarity 67.9%; Pred. No. 9.9;
Matches 36; Conservative 0; Mismatches 17; Indels 0; Gaps 0;

QY 7 ACCGCTCCACCTGCACACGGGGTCAAGCGCCGACACTCGACTGCGCC 59
Db 41 ACCGCGCCCGACGCCACGATGTGTCACTCGCCCGGACACACGCGCGCCC 93

RESULT 3
US-10-821-234-481/C
; Sequence 481, Application US/10821234
; Publication No. US20050255114A1
; GENERAL INFORMATION:
; APPLICANT: Labat, Ivan
; APPLICANT: Stache-Crain, Birgit
; APPLICANT: Andarmani, Susan
; APPLICANT: Tang, Y. Tom
; TITLE OF INVENTION: Methods for Diagnosis and Treatment of Preeclampsia
; FILE REFERENCE: 821A
; CURRENT APPLICATION NUMBER: US/10/821,234
; CURRENT FILING DATE: 2004-04-07
; PRIOR APPLICATION NUMBER: US 60/462,047
; PRIOR FILING DATE: 2003-04-07
; NUMBER OF SEQ ID NOS: 1704
; SOFTWARE: pt_seq_genes Version 1.0
; SEQ ID NO 481
; LENGTH: 447
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-821-234-481

Query Match 40.3%; Score 24.2; DB 8; Length 447;
Best Local Similarity 66.0%; Pred. No. 36;
Matches 35; Conservative 0; Mismatches 18; Indels 0; Gaps 0;

QY 1 GGAAGTACCGCTCCACCTGCACACGGGGTCAAGCGCCGACACTCGACC 53
Db 280 GGAAGAACCTGTCCACCTCTGCATTGGGCCAGAGCAGCCAGCTTCTCCGCC 228

RESULT 4
US-10-301-480-21313
; Sequence 21313, Application US/10301480
; Publication No. US20060057564A1
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single Nucleotide Polymorphisms
; TITLE OF INVENTION: in the Human Genome

; FILE REFERENCE: 108827.137
; CURRENT APPLICATION NUMBER: US/10/301,480
; CURRENT FILING DATE: 2002-11-21
; PRIOR APPLICATION NUMBER: US 10/215,598
; PRIOR FILING DATE: 2002-08-09
; PRIOR APPLICATION NUMBER: US 60/311,695
; PRIOR FILING DATE: 2001-08-10
; NUMBER OF SEQ ID NOS: 1226818
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 21313
; LENGTH: 427
; TYPE: DNA
; ORGANISM: Homo sapien
US-10-301-480-21313

Query Match 39.0%; Score 23.4; DB 9; Length 427;
Best Local Similarity 63.2%; Pred. No. 70;
Matches 36; Conservative 0; Mismatches 21; Indels 0; Gaps 0;

QY 2 GAAGTACCGCTCCACCTGCACACGGGGTCAAGCGCCGACACTCGACTGCGC 58
Db 97 GAGGTACCGCACCACTGCTGTGTGTGACAGCGGAGCAGAACGATCTCCGTGTGC 153

RESULT 5
US-10-301-480-634722
; Sequence 634722, Application US/10301480
; Publication No. US20060057564A1
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single Nucleotide Polymorphisms
; TITLE OF INVENTION: in the Human Genome
; FILE REFERENCE: 108827.137
; CURRENT APPLICATION NUMBER: US/10/301,480
; CURRENT FILING DATE: 2002-11-21
; PRIOR APPLICATION NUMBER: US 10/215,598
; PRIOR FILING DATE: 2002-08-09
; PRIOR APPLICATION NUMBER: US 60/311,695
; PRIOR FILING DATE: 2001-08-10
; NUMBER OF SEQ ID NOS: 1226818
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 634722
; LENGTH: 427
; TYPE: DNA
; ORGANISM: Homo sapien
US-10-301-480-634722

Query Match 39.0%; Score 23.4; DB 10; Length 427;
Best Local Similarity 63.2%; Pred. No. 70;
Matches 36; Conservative 0; Mismatches 21; Indels 0; Gaps 0;

QY 2 GAAGTACCGCTCCACCTGCACACGGGGTCAAGCGCCGACACTCGACTGCGC 58
Db 97 GAGGTACCGCACCACTGCTGTGTGTGACAGCGGAGCAGAACGATCTCCGTGTGC 153

RESULT 6
US-09-925-065A-590425
; Sequence 590425, Application US/09925065A
; Publication No. US20040181048A1
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single
; TITLE OF INVENTION: Nucleotide Polymorphisms in the Human Genome
; FILE REFERENCE: 108827.135
; CURRENT APPLICATION NUMBER: US/09/925,065A
; CURRENT FILING DATE: 2001-08-08
; PRIOR APPLICATION NUMBER: US 60/243,096
; PRIOR FILING DATE: 2000-10-24
; PRIOR APPLICATION NUMBER: US 60/252,147
; PRIOR FILING DATE: 2000-11-20
; PRIOR APPLICATION NUMBER: US 60/250,092
; PRIOR FILING DATE: 2000-11-30

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; PRIOR APPLICATION NUMBER: US 60/261,766
; PRIOR FILING DATE: 2001-01-16
; PRIOR APPLICATION NUMBER: US 60/289,846
; PRIOR FILING DATE: 2001-05-09
; NUMBER OF SEQ ID NOS: 957086
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 590425
; LENGTH: 450
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-925-065A-590425
```

```
Query Match      39.0%; Score 23.4; DB 6; Length 450;
Best Local Similarity 63.2%; Pred. No. 70;
Matches 36; Conservative 0; Mismatches 21; Indels 0; Gaps 0;
```

```
QY      2 GAAGTACCGCTCCACCTGCACACGCGGTCAACAAGCGCGCCAGACACTGCAGCTGCGC 58
      |||||||
Db      107 GAGTACCGCACACCTGCTGTGTGACAGACGCGAGAGACGAGTCTCCGTGTGC 163
```

RESULT 7

```
US-10-301-480-21312
; Sequence 21312, Application US/10301480
; Publication No. US20060057564A1
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single Nucleotide Polymorphisms
; FILE REFERENCE: 108827.137
; CURRENT FILING DATE: 2002-11-21
; PRIOR APPLICATION NUMBER: US 10/215,598
; PRIOR FILING DATE: 2002-08-09
; PRIOR APPLICATION NUMBER: US 60/311,695
; PRIOR FILING DATE: 2001-08-10
; NUMBER OF SEQ ID NOS: 1226818
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 21312
; LENGTH: 464
; TYPE: DNA
; ORGANISM: Homo sapien
US-10-301-480-21312
```

```
Query Match      39.0%; Score 23.4; DB 9; Length 464;
Best Local Similarity 63.2%; Pred. No. 69;
Matches 36; Conservative 0; Mismatches 21; Indels 0; Gaps 0;
```

```
QY      2 GAAGTACCGCTCCACCTGCACACGCGGTCAACAAGCGCGCCAGACACTGCAGCTGCGC 58
      |||||||
Db      116 GAGTACCGCACACCTGCTGTGTGACAGACGCGAGAGACGAGTCTCCGTGTGC 172
```

RESULT 8

```
US-10-301-480-634721
; Sequence 634721, Application US/10301480
; Publication No. US20060057564A1
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single Nucleotide Polymorphisms
; FILE REFERENCE: 108827.137
; CURRENT FILING DATE: 2002-11-21
; PRIOR APPLICATION NUMBER: US 10/215,598
; PRIOR FILING DATE: 2002-08-09
; PRIOR APPLICATION NUMBER: US 60/311,695
; PRIOR FILING DATE: 2001-08-10
; NUMBER OF SEQ ID NOS: 1226818
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 634721
; LENGTH: 464
; TYPE: DNA
```

```
; ORGANISM: Homo sapien
US-10-301-480-634721
```

```
Query Match      39.0%; Score 23.4; DB 10; Length 464;
Best Local Similarity 63.2%; Pred. No. 69;
Matches 36; Conservative 0; Mismatches 21; Indels 0; Gaps 0;
```

```
QY      2 GAAGTACCGCTCCACCTGCACACGCGGTCAACAAGCGCGCCAGACACTGCAGCTGCGC 58
      |||||||
Db      116 GAGTACCGCACACCTGCTGTGTGACAGACGCGAGAGACGAGTCTCCGTGTGC 172
```

RESULT 9

```
US-10-995-561-69317/c
; Sequence 69317, Application US/10995561
; Publication No. US20050272054A1
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele et al.
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; FILE REFERENCE: CL001559
; CURRENT FILING DATE: 2004-11-24
; PRIOR APPLICATION NUMBER: US/10/995,561
; PRIOR FILING DATE: 2004-11-24
; NUMBER OF SEQ ID NOS: 85702
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 69317
; LENGTH: 201
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-995-561-69317
```

```
Query Match      38.7%; Score 23.2; DB 8; Length 201;
Best Local Similarity 70.5%; Pred. No. 82;
Matches 31; Conservative 0; Mismatches 13; Indels 0; Gaps 0;
```

```
QY      6 TACCGCTCCACCTGCACACGCGGTCAACAAGCGCGCCAGACACTC 49
      |||||||
Db      194 TCCCTTACGCTGCCCATGAGGGGACACAGTGGGCCCCACACTC 151
```

RESULT 10

```
US-10-995-561-69501/c
; Sequence 69501, Application US/10995561
; Publication No. US20050272054A1
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele et al.
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; FILE REFERENCE: CL001559
; CURRENT FILING DATE: 2004-11-24
; PRIOR APPLICATION NUMBER: US/10/995,561
; PRIOR FILING DATE: 2004-11-24
; NUMBER OF SEQ ID NOS: 85702
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 69501
; LENGTH: 201
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-995-561-69501
```

```
Query Match      38.7%; Score 23.2; DB 8; Length 201;
Best Local Similarity 70.5%; Pred. No. 82;
Matches 31; Conservative 0; Mismatches 13; Indels 0; Gaps 0;
```

```
QY      6 TACCGCTCCACCTGCACACGCGGTCAACAAGCGCGCCAGACACTC 49
      |||||||
Db      167 TCCCTTACGCTGCCCATGAGGGGACACAGTGGGCCCCACACTC 124
```

RESULT 11

```
US-10-301-480-21311
; Sequence 21311, Application US/10301480
```

```
; Publication No. US20060057564A1
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single Nucleotide Polymorphisms
; FILE REFERENCE: 108827.137
; CURRENT APPLICATION NUMBER: US/10/301,480
; CURRENT FILING DATE: 2002-11-21
; PRIOR APPLICATION NUMBER: US 10/215,598
; PRIOR FILING DATE: 2002-08-09
; PRIOR APPLICATION NUMBER: US 60/311,695
; PRIOR FILING DATE: 2001-08-10
; NUMBER OF SEQ ID NOS: 1226818
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 21311
; LENGTH: 427
; TYPE: DNA
; ORGANISM: Homo sapien
US-10-301-480-21311
```

```
Query Match          38.3%; Score 23; DB 9; Length 427;
Best Local Similarity 61.4%; Pred. No. 96;
Matches 35; Conservative 1; Mismatches 21; Indels 0; Gaps 0;
```

```
QY      2 GAAGTACCGCTCCACCTGCACACGGGGTCAACAAGCGCCAGACACTCGACCTGCGC 58
Db      97 GAGGTACCRACACCACTGCTGCTGTGCAGACGGGAGAGAGAAAGGTCTCCGTGTC 153
```

```
RESULT 12
US-10-301-480-634720
; Sequence 634720, Application US/10301480
; Publication No. US20060057564A1
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single Nucleotide Polymorphisms
; FILE REFERENCE: 108827.137
; CURRENT APPLICATION NUMBER: US/10/301,480
; CURRENT FILING DATE: 2002-11-21
; PRIOR APPLICATION NUMBER: US 10/215,598
; PRIOR FILING DATE: 2002-08-09
; PRIOR APPLICATION NUMBER: US 60/311,695
; PRIOR FILING DATE: 2001-08-10
; NUMBER OF SEQ ID NOS: 1226818
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 634720
; LENGTH: 427
; TYPE: DNA
; ORGANISM: Homo sapien
US-10-301-480-634720
```

```
Query Match          38.3%; Score 23; DB 10; Length 427;
Best Local Similarity 61.4%; Pred. No. 96;
Matches 35; Conservative 1; Mismatches 21; Indels 0; Gaps 0;
```

```
QY      2 GAAGTACCGCTCCACCTGCACACGGGGTCAACAAGCGCCAGACACTCGACCTGCGC 58
Db      97 GAGGTACCRACACCACTGCTGCTGTGCAGACGGGAGAGAGAAAGGTCTCCGTGTC 153
```

```
RESULT 13
US-10-995-561-69502/c
; Sequence 69502, Application US/10995561
; Publication No. US20050272054A1
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele et al.
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; TITLE OF INVENTION: CARDIOVASCULAR DISORDERS AND DRUG RESPONSE, METHODS OF
; FILE REFERENCE: CL001559
; CURRENT APPLICATION NUMBER: US/10/995,561
; CURRENT FILING DATE: 2004-11-24
```

```
; NUMBER OF SEQ ID NOS: 85702
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 69502
; LENGTH: 201
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-995-561-69502
```

```
Query Match          38.0%; Score 22.8; DB 8; Length 201;
Best Local Similarity 71.4%; Pred. No. 1.1e+02;
Matches 30; Conservative 0; Mismatches 12; Indels 0; Gaps 0;
```

```
QY      8 CCGCTCCACCTGCACACAGGGGTCAACAAGCGCCAGACACTC 49
Db      201 CCCCTTCACTGCCCATGAGGGACACAGGTGGCCCCACACTC 160
```

```
RESULT 14
US-10-301-480-235879
; Sequence 235879, Application US/10301480
; Publication No. US20060057564A1
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single Nucleotide Polymorphisms
; FILE REFERENCE: 108827.137
; CURRENT APPLICATION NUMBER: US/10/301,480
; CURRENT FILING DATE: 2002-11-21
; PRIOR APPLICATION NUMBER: US 10/215,598
; PRIOR FILING DATE: 2002-08-09
; PRIOR APPLICATION NUMBER: US 60/311,695
; PRIOR FILING DATE: 2001-08-10
; NUMBER OF SEQ ID NOS: 1226818
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 235879
; LENGTH: 326
; TYPE: DNA
; ORGANISM: Homo sapien
US-10-301-480-235879
```

```
Query Match          36.7%; Score 22; DB 10; Length 326;
Best Local Similarity 67.4%; Pred. No. 2.2e+02;
Matches 31; Conservative 0; Mismatches 15; Indels 0; Gaps 0;
```

```
QY      4 AGTACCGCTCCACCTGCACACGGGGTCAACAAGCGCCAGACACTC 49
Db      223 AGCACCACTTCACTCCACTCAAGGACAGACTGAGACAGACACTC 268
```

```
RESULT 15
US-10-301-480-849288
; Sequence 849288, Application US/10301480
; Publication No. US20060057564A1
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single Nucleotide Polymorphisms
; FILE REFERENCE: 108827.137
; CURRENT APPLICATION NUMBER: US/10/301,480
; CURRENT FILING DATE: 2002-11-21
; PRIOR APPLICATION NUMBER: US 10/215,598
; PRIOR FILING DATE: 2002-08-09
; PRIOR APPLICATION NUMBER: US 60/311,695
; PRIOR FILING DATE: 2001-08-10
; NUMBER OF SEQ ID NOS: 1226818
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 849288
; LENGTH: 326
; TYPE: DNA
; ORGANISM: Homo sapien
US-10-301-480-849288

Query Match          36.7%; Score 22; DB 10; Length 326;
```

Best Local Similarity 67.4%; Pred. No. 2.2e+02;
Matches 31; Conservative 0; Mismatches 15; Indels 0; Gaps 0;

Qy	4	AGTACCGCTCCACCTGCAACGGGGTCAAGCGGCCAGACACTC	49
Db	223	AGCACCACTTCAGCTCCACTCAAGGGCAAGACTGAGACAGACACTC	268

Search completed: March 27, 2006, 14:47:09
Job time : 322.3 secs

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OM nucleic - nucleic search, using 8w model

Run on: March 27, 2006, 13:49:57 ; Search time 371.4 Seconds
(without alignments)
1335.925 Million cell updates/sec

Title: US-10-057-136A-9

Sequence: 1 GGAAGTACCGCTCCACTGC.....CAGACACTCGACCTGGCCA 60

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 9793542 seqs, 4134689005 residues

Total number of hits satisfying chosen parameters: 14089978

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Minimum DB seq length: 0
Maximum DB seq length: 500

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Post-processing:	Minimum Match	0%
	Maximum Match	100%
	Listing first	45 summaries

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2: /cgn2_6/ptodata/1/pubpna/US08_PUBCOMB.seq:*
3: /cgn2_6/ptodata/1/pubpna/US09A_PUBCOMB.seq:*
4: /cgn2_6/ptodata/1/pubpna/US09B_PUBCOMB.seq:*
5: /cgn2_6/ptodata/1/pubpna/US10A_PUBCOMB.seq:*
6: /cgn2_6/ptodata/1/pubpna/US10B_PUBCOMB.seq:*
7: /cgn2_6/ptodata/1/pubpna/US10C_PUBCOMB.seq:*
8: /cgn2_6/ptodata/1/pubpna/US10D_PUBCOMB.seq:*
9: /cgn2_6/ptodata/1/pubpna/US10E_PUBCOMB.seq:*
10: /cgn2_6/ptodata/1/pubpna/US11_PUBCOMB.seq:*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB	ID	Description
1	60	100.0	60	5	US-10-057-136-9	Sequence 9, Appl1
2	52	86.7	60	5	US-10-057-136-8	Sequence 8, Appl1
3	38.2	63.7	60	5	US-10-057-136-12	Sequence 12, Appl1
4	33.4	55.7	60	5	US-10-057-136-4	Sequence 4, Appl1
5	31.8	53.0	60	5	US-10-057-136-5	Sequence 5, Appl1
6	31.4	52.3	93	7	US-10-471-607-3	Sequence 3, Appl1
7	31.4	52.3	156	7	US-10-471-607-5	Sequence 5, Appl1
8	31.4	52.3	157	7	US-10-471-607-6	Sequence 6, Appl1
9	31.4	52.3	157	7	US-10-471-607-9	Sequence 9, Appl1
10	30.2	50.3	120	8	US-10-635-211-3	Sequence 3, Appl1
11	30.2	50.3	162	8	US-10-635-211-8	Sequence 8, Appl1
12	30	50.0	60	5	US-10-057-136-6	Sequence 6, Appl1
13	29	48.3	60	5	US-10-057-136-7	Sequence 7, Appl1
14	29	48.3	60	5	US-10-057-136-11	Sequence 11, Appl1
15	27.4	45.7	60	5	US-10-057-136-2	Sequence 2, Appl1
16	25.8	43.0	78	5	US-10-057-136-13	Sequence 13, Appl1
17	25.6	42.7	72	7	US-10-296-734-1165	Sequence 1165, Ap
18	24.2	40.3	318	6	US-10-101-510-40	Sequence 40, Appl
19	24.2	40.3	423	9	US-10-450-763-27719	Sequence 27719, A
20	24.2	40.3	447	8	US-10-490-584-15	Sequence 15, Appl
21	23.6	39.3	60	5	US-10-057-136-10	Sequence 10, Appl
22	23.6	39.3	60	7	US-10-716-293-214	Sequence 214, App
23	23.4	39.0	333	7	US-10-437-963-17981	Sequence 17981, A

C	24	23.4	39.0	450	4	US-09-925-065A-590425	Sequence 590425,
C	25	23.2	38.7	454	5	US-10-1-106-698-836	Sequence 836, App
	26	23	38.3	461	5	US-10-027-632-93715	Sequence 93715, A
	27	23	38.3	461	5	US-10-027-632-93716	Sequence 93716, A
	28	23	38.3	461	5	US-10-027-632-93717	Sequence 93717, A
	29	23	38.3	461	5	US-10-027-632-318277	Sequence 318277,
	30	23	38.3	461	5	US-10-027-632-318278	Sequence 318278,
	31	23	38.3	461	5	US-10-027-632-318279	Sequence 318279,
	32	23	38.3	461	6	US-10-027-632-93715	Sequence 93715, A
	33	23	38.3	461	6	US-10-027-632-93716	Sequence 93716, A
	34	23	38.3	461	6	US-10-027-632-93717	Sequence 93717, A
	35	23	38.3	461	6	US-10-027-632-318277	Sequence 318277,
	36	23	38.3	461	6	US-10-027-632-318278	Sequence 318278,
	37	23	38.3	461	6	US-10-027-632-318279	Sequence 318279,
	38	22.8	38.0	60	5	US-10-057-136-14	Sequence 14, App1
C	39	22.8	38.0	283	6	US-10-029-386-21985	Sequence 21985, A
C	40	22.8	38.0	303	7	US-10-437-963-38533	Sequence 38533, A
	41	22.8	38.0	362	8	US-10-425-115-18356	Sequence 18356, A
C	42	22.8	38.0	401	6	US-10-074-566-131	Sequence 131, App
C	43	22.8	38.0	413	6	US-10-074-566-130	Sequence 130, App
	44	22.8	38.0	415	3	US-09-983-965-4498	Sequence 4498, App
C	45	22.8	38.0	425	2	US-08-781-986A-3693	Sequence 3693, App

ALIGNMENTS

```

RESULT 1
US-10-057-136-9
; Sequence 9, Application US/10057136
; Publication No. US20030021770A1
; GENERAL INFORMATION:
; APPLICANT: SCHLOM, JEFFREY
; APPLICANT: KANTOR, JUDITH
; APPLICANT: KUFE, DONALD
; APPLICANT: PANICALI, DENNIS
; APPLICANT: GRITZ, LINDA
; TITLE OF INVENTION: RECOMBINANT POX VIRUS FOR IMMUNIZATION AGAINST MUC1
; TITLE OF INVENTION: TUMOR-ASSOCIATED ANTIGEN
; FILE REFERENCE: 700953/47113C
; CURRENT APPLICATION NUMBER: US/10/057,136
; CURRENT FILING DATE: 2002-01-25
; PRIOR APPLICATION NUMBER: 09/366,670
; PRIOR FILING DATE: 1999-08-03
; PRIOR APPLICATION NUMBER: PCT/US98/03693
; PRIOR FILING DATE: 1998-02-24
; PRIOR APPLICATION NUMBER: 60/038,253
; PRIOR FILING DATE: 1997-02-24
; NUMBER OF SEQ ID NOS: 20
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 9
; LENGTH: 60
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-057-136-9

Query Match          100.0%; Score 60; DB 5; Length 60;
Best Local Similarity 100.0%; Pred. No. 2.8e-12;
Matches 60; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 GGAAGTACCGCTCCACCTGCACACGGGGGTCAACAAGCGCCGACACTCGACTGCGCCA 60
        |||||||
Db       1 GGAAGTACCGCTCCACCTGCACACGGGGGTCAACAAGCGCCGACACTCGACTGCGCCA 60

RESULT 2
US-10-057-136-8
; Sequence 8, Application US/10057136
; Publication No. US20030021770A1
; GENERAL INFORMATION:
; APPLICANT: SCHLOM, JEFFREY
; APPLICANT: KANTOR, JUDITH
; APPLICANT: KUFE, DONALD

```

```
/ APPLICANT: PANICALI, DENNIS
/ APPLICANT: GRITZ, LINDA
/ TITLE OF INVENTION: RECOMBINANT POX VIRUS FOR IMMUNIZATION AGAINST MUC1
/ TITLE OF INVENTION: TUMOR-ASSOCIATED ANTIGEN
/ FILE REFERENCE: 700953/47113C
/ CURRENT APPLICATION NUMBER: US/10/057,136
/ CURRENT FILING DATE: 2002-01-25
/ PRIOR APPLICATION NUMBER: 09/366,670
/ PRIOR FILING DATE: 1999-08-03
/ PRIOR APPLICATION NUMBER: PCT/US98/03693
/ PRIOR FILING DATE: 1998-02-24
/ PRIOR APPLICATION NUMBER: 60/038,253
/ PRIOR FILING DATE: 1997-02-24
/ NUMBER OF SEQ ID NOS: 20
/ SOFTWARE: PatentIn Ver. 2.1
/ SEQ ID NO 8
/ LENGTH: 60
/ TYPE: DNA
/ ORGANISM: Homo sapiens
US-10-057-136-8
```

```
Query Match      86.7%; Score 52; DB 5; Length 60;
Best Local Similarity 91.7%; Pred. No. 2.4e-09;
Matches 55; Conservative 0; Mismatches 5; Indels 0; Gaps 0;
```

```
OY      1 GGAAGTACCGCTCCACCTGCACACGGGGGTCAAGCGCGCCAGACACTGCACCTGCGCCA 60
      |||||
Db       1 GGCAGACCGCAGCCCGCCGACACGGGGTCAAGCGCGCCAGACACTGCACCTGCGCCA 60
```

```
RESULT 3
US-10-057-136-12
```

```
/ Sequence 12, Application US/10057136
/ Publication No. US20030021770A1
/ GENERAL INFORMATION:
/ APPLICANT: SCHLOM, JEFFREY
/ APPLICANT: KANTOR, JUDITH
/ APPLICANT: KUFER, DONALD
/ APPLICANT: PANICALI, DENNIS
/ APPLICANT: GRITZ, LINDA
/ TITLE OF INVENTION: RECOMBINANT POX VIRUS FOR IMMUNIZATION AGAINST MUC1
/ TITLE OF INVENTION: TUMOR-ASSOCIATED ANTIGEN
/ FILE REFERENCE: 700953/47113C
/ CURRENT APPLICATION NUMBER: US/10/057,136
/ CURRENT FILING DATE: 2002-01-25
/ PRIOR APPLICATION NUMBER: 09/366,670
/ PRIOR FILING DATE: 1999-08-03
/ PRIOR APPLICATION NUMBER: PCT/US98/03693
/ PRIOR FILING DATE: 1998-02-24
/ PRIOR APPLICATION NUMBER: 60/038,253
/ PRIOR FILING DATE: 1997-02-24
/ NUMBER OF SEQ ID NOS: 20
/ SOFTWARE: PatentIn Ver. 2.1
/ SEQ ID NO 12
/ LENGTH: 60
/ TYPE: DNA
/ ORGANISM: Homo sapiens
US-10-057-136-12
```

```
Query Match      63.7%; Score 38.2; DB 5; Length 60;
Best Local Similarity 78.0%; Pred. No. 0.00027;
Matches 46; Conservative 0; Mismatches 13; Indels 0; Gaps 0;
```

```
OY      1 GGAAGTACCGCTCCACCTGCACACGGGGGTCAAGCGCGCCAGACACTGCACCTGCGCC 59
      |||||
Db       1 GGTAGTACAGCGCCAGCCGACATGGGTCAAGCGCGCTCCGATACGAGACCGCGGCC 59
```

```
RESULT 4
US-10-057-136-4
/ Sequence 4, Application US/10057136
/ Publication No. US20030021770A1
/ GENERAL INFORMATION:
```

```
/ APPLICANT: SCHLOM, JEFFREY
/ APPLICANT: KANTOR, JUDITH
/ APPLICANT: KUFER, DONALD
/ APPLICANT: PANICALI, DENNIS
/ APPLICANT: GRITZ, LINDA
/ TITLE OF INVENTION: RECOMBINANT POX VIRUS FOR IMMUNIZATION AGAINST MUC1
/ TITLE OF INVENTION: TUMOR-ASSOCIATED ANTIGEN
/ FILE REFERENCE: 700953/47113C
/ CURRENT APPLICATION NUMBER: US/10/057,136
/ CURRENT FILING DATE: 2002-01-25
/ PRIOR APPLICATION NUMBER: 09/366,670
/ PRIOR FILING DATE: 1999-08-03
/ PRIOR APPLICATION NUMBER: PCT/US98/03693
/ PRIOR FILING DATE: 1998-02-24
/ PRIOR APPLICATION NUMBER: 60/038,253
/ PRIOR FILING DATE: 1997-02-24
/ NUMBER OF SEQ ID NOS: 20
/ SOFTWARE: PatentIn Ver. 2.1
/ SEQ ID NO 4
/ LENGTH: 60
/ TYPE: DNA
/ ORGANISM: Homo sapiens
US-10-057-136-4
```

```
Query Match      55.7%; Score 33.4; DB 5; Length 60;
Best Local Similarity 72.9%; Pred. No. 0.016;
Matches 43; Conservative 0; Mismatches 16; Indels 0; Gaps 0;
```

```
OY      1 GGAAGTACCGCTCCACCTGCACACGGGGGTCAAGCGCGCCAGACACTGCACCTGCGCC 59
      |||||
Db       1 GGCAGTACTGCACCGCCGACATGGCGTAACTACGACCTGATCAAGACCTGCACC 59
```

```
RESULT 5
US-10-057-136-5
```

```
/ Sequence 5, Application US/10057136
/ Publication No. US20030021770A1
/ GENERAL INFORMATION:
/ APPLICANT: SCHLOM, JEFFREY
/ APPLICANT: KANTOR, JUDITH
/ APPLICANT: KUFER, DONALD
/ APPLICANT: PANICALI, DENNIS
/ APPLICANT: GRITZ, LINDA
/ TITLE OF INVENTION: RECOMBINANT POX VIRUS FOR IMMUNIZATION AGAINST MUC1
/ TITLE OF INVENTION: TUMOR-ASSOCIATED ANTIGEN
/ FILE REFERENCE: 700953/47113C
/ CURRENT APPLICATION NUMBER: US/10/057,136
/ CURRENT FILING DATE: 2002-01-25
/ PRIOR APPLICATION NUMBER: 09/366,670
/ PRIOR FILING DATE: 1999-08-03
/ PRIOR APPLICATION NUMBER: PCT/US98/03693
/ PRIOR FILING DATE: 1998-02-24
/ PRIOR APPLICATION NUMBER: 60/038,253
/ PRIOR FILING DATE: 1997-02-24
/ NUMBER OF SEQ ID NOS: 20
/ SOFTWARE: PatentIn Ver. 2.1
/ SEQ ID NO 5
/ LENGTH: 60
/ TYPE: DNA
/ ORGANISM: Homo sapiens
US-10-057-136-5
```

```
Query Match      53.0%; Score 31.8; DB 5; Length 60;
Best Local Similarity 71.2%; Pred. No. 0.061;
Matches 42; Conservative 0; Mismatches 17; Indels 0; Gaps 0;
```

```
OY      1 GGAAGTACCGCTCCACCTGCACACGGGGGTCAAGCGCGCCAGACACTGCACCTGCGCC 59
      |||||
Db       1 GGAATCCACCGCGCGCTGCGGACGAGTACGTCGGCGCGCCGACACGCGCCCGCTCC 59
```

```
RESULT 6
US-10-471-607-3
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```

; Sequence 3, Application US/10471607
; Publication No. US20040115740A1
GENERAL INFORMATION:
APPLICANT: The Victoria University of Manchester
APPLICANT: Benson, Roderick
TITLE OF INVENTION: Intracellular analysis.
FILE REFERENCE: P088857PMO
CURRENT APPLICATION NUMBER: US/10/471,607
CURRENT FILING DATE: 2003-09-24
PRIOR APPLICATION NUMBER: GB 0108165.2
PRIOR FILING DATE: 2001-03-21
NUMBER OF SEQ ID NOS: 16
SOFTWARE: PatentIn version 3.1
; SEQ ID NO 3
; LENGTH: 93
; TYPE: DNA
; ORGANISM: Artificial
; FEATURE:
; OTHER INFORMATION: Artificial epitope construct
US-10-471-607-3

```

Query Match	52.3%;	Score 31.4;	DB 7;	Length 93;
Best Local Similarity	85.4%;	Pred. No. 0.085;		
Matches 35; Conservative	0;	Mismatches 6;	Indels 0;	Gaps 0;

```

Qy      1  GGAAGTACCGCTCCACCTGCACACGGGGTCAACAAGCGGCC 41
        ||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Dbb     38  GGATCTACCGCTCCTCTCTGCCACGAGTCAACAAGCGCAC 78

```

RESULT 7
US-10-47

```

: Sequence 5, Application US/10471607
: Publication No. US20040115740A1
: GENERAL INFORMATION:
: APPLICANT: The Victoria University of Manchester
: APPLICANT: Benson, Roderick
: TITLE OF INVENTION: Intracellular analysis.
: FILE REFERENCE: P088857PMO
: CURRENT APPLICATION NUMBER: US/10/471,607
: CURRENT FILING DATE: 2003-09-24
: PRIOR APPLICATION NUMBER: GB 0108165.2
: PRIOR FILING DATE: 2001-03-21
: NUMBER OF SEQ ID NOS: 16
: SOFTWARE: PatentIn version 3.1
: SEQ ID NO 5
: LENGTH: 156
: TYPE: DNA
: ORGANISM: Artificial
: FEATURE:
: OTHER INFORMATION: Artificial epitope construct
US-10-471-607-5

```

Query Match	52.3%;	Score 31.4;	DB 7;	Length 156;
Best Local Similarity	85.4%;	Pred. No. 0.084;		
Matches 35; Conservative	0;	Mismatches 6;	Indels 0;	Gaps 0;

Qy 1 GGAAGTACCGCTCCACTGCAACGGGTACAAGCGGCC 41
||| ||||||| ||||| ||||| ||||| ||||| |||||
Db 38 GGATCTACCGCTCCTCTGTGCCACGGAGTCACAGCGCAC 78

RESULT 8
US-10-47

Sequence 6, Application US/10471607
Publication No. US20040115740A1
GENERAL INFORMATION:
APPLICANT: The Victoria University of Manchester
APPLICANT: Benson, Roderick
TITLE OF INVENTION: Intracellular analysis.
FILE REFERENCE: P088857PWO
CURRENT APPLICATION NUMBER: US/10/471,607
CURRENT FILING DATE: 2003-09-24

```

; PRIOR APPLICATION NUMBER: GB 0108165.2
; PRIOR FILING DATE: 3001-03-21
; NUMBER OF SEQ ID NOS: 16
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 6
; LENGTH: 157
; TYPE: DNA
; ORGANISM: Artificial
; FEATURE:
; OTHER INFORMATION: Artificial epitope construct
US-10-471-607-6

```

Query Match	52.3%;	Score 31.4;	DB 7;	length 157;
Best Local Similarity	85.4%;	Pred. No. 0.084;		
Matches 35; Conservative	0;	Mismatches 6;	Indels 0;	Gaps 0;

Oy 1 GGAAGTACCGCTCCACTGCACACGGGGTCACAAGCGGCC 41
||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Dbb 38 GGATCAACCGCTCCTCTCTGCCCCAGGAGTCACAAGCGCAC 78

RESULT 9

```

US-10-471-607-9
; Sequence 9, Application US/10471607
; Publication No. US20040115740A1
; GENERAL INFORMATION:
; APPLICANT: The Victoria University of Manchester
; APPLICANT: Benson, Roderick
; TITLE OF INVENTION: Intracellular analysis.
; FILE REFERENCE: P088857PMO
; CURRENT APPLICATION NUMBER: US/10/471,607
; CURRENT FILING DATE: 2003-09-24
; PRIOR APPLICATION NUMBER: GB 0108165.2
; PRIOR FILING DATE: 3001-03-21
; NUMBER OF SEQ ID NOS: 16
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 9
; LENGTH: 157
; TYPE: DNA
; ORGANISM: Artificial
; FEATURE:
; OTHER INFORMATION: Artificial epitope construct
US-10-471-607-9

```

Query Match	52.3%;	Score 31.4;	DB 7;	Length 157;
Best Local Similarity	85.4%;	Pred. No. 0.084;		
Matches 35; Conservative	0;	Mismatches 6;	Indels 0;	Gaps 0;

OY

1 GGAAGTACCGCTCCACTGCACAAGGGGTCAAGAAGGCGGCC 41
||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Ddb

38 GGATCATCAGCTCCTCTCTGCCCCAAGGAGTCACAAGCGCAC 78

RESULT 10
US-10-635

; Sequence 3, Application US/10635211
; Publication No. US20050031649A1

```

; GENERAL INFORMATION:
; APPLICANT: Beijing HYDVAX Biotechnology Co. Ltd
; TITLE OF INVENTION: A recombinant fusion protein comprising BCG heat shock protein 65
; TITLE OF INVENTION: and the epitope of MUC1
; FILE REFERENCE: FP03012US
; CURRENT APPLICATION NUMBER: US/10/635,211
; CURRENT FILING DATE: 2003-08-06
; NUMBER OF SEQ ID NOS: 9
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 3
; LENGTH: 120
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (1)..(120)

```

US-10-635-211-3

Query Match 50.3%; Score 30.2; DB 8; Length 120;
Best Local Similarity 69.5%; Pred. No. 0.23;
Matches 41; Conservative 0; Mismatches 18; Indels 0; Gaps 0;

QY 1 GGAAGTACCGCTCCACCTGCACACGGGGTCACAAGCGCGCCAGACACTGCAGCTGCGCC 59
DB 1 GGTTCACCGCTCCGCGGCTCAGCGGTGTACTCTGCTCCGAGACCCGTCGCGCTCC 59

RESULT 11

US-10-635-211-8/c
; Sequence 8, Application US/10635211
; Publication No. US20050031649A1
; GENERAL INFORMATION:
; APPLICANT: Beijing HYDAX Biotechnology Co. Ltd
; TITLE OF INVENTION: A recombinant fusion protein comprising BCG heat shock protein 65
; TITLE OF INVENTION: and the epitope of MUC1
; FILE REFERENCE: FP03012US
; CURRENT APPLICATION NUMBER: US/10/635,211
; CURRENT FILING DATE: 2003-08-06
; NUMBER OF SEQ ID NOS: 9
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 8
; LENGTH: 162
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Primer
US-10-635-211-8

Query Match 50.3%; Score 30.2; DB 8; Length 162;
Best Local Similarity 69.5%; Pred. No. 0.23;
Matches 41; Conservative 0; Mismatches 18; Indels 0; Gaps 0;

QY 1 GGAAGTACCGCTCCACCTGCACACGGGGTCACAAGCGCGCCAGACACTGCAGCTGCGCC 59
DB 138 GGTTCACCGCTCCGCGGCTCAGCGGTGTACTCTGCTCCGAGACCCGTCGCGCTCC 80

RESULT 12

US-10-057-136-6
; Sequence 6, Application US/10057136
; Publication No. US20030021770A1
; GENERAL INFORMATION:
; APPLICANT: SCHLOM, JEFFREY
; APPLICANT: KANTOR, JUDITH
; APPLICANT: KUEF, DONALD
; APPLICANT: PANICALI, DENNIS
; APPLICANT: GRITZ, LINDA
; TITLE OF INVENTION: RECOMBINANT POX VIRUS FOR IMMUNIZATION AGAINST MUC1
; TITLE OF INVENTION: TUMOR-ASSOCIATED ANTIGEN
; FILE REFERENCE: 700953/47113C
; CURRENT APPLICATION NUMBER: US/10/057,136
; CURRENT FILING DATE: 2002-01-25
; PRIOR APPLICATION NUMBER: 09/366,670
; PRIOR FILING DATE: 1999-08-03
; PRIOR APPLICATION NUMBER: PCT/US98/03693
; PRIOR FILING DATE: 1998-02-24
; PRIOR APPLICATION NUMBER: 60/038,253
; PRIOR FILING DATE: 1997-02-24
; NUMBER OF SEQ ID NOS: 20
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 6
; LENGTH: 60
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-057-136-6

Query Match 50.0%; Score 30; DB 5; Length 60;
Best Local Similarity 72.2%; Pred. No. 0.28;
Matches 39; Conservative 0; Mismatches 15; Indels 0; Gaps 0;

QY 7 ACCGCTCAGCTGCACACGGGGTCACAAGCGCGCCAGACACTGCAGCTGCGCCA 60
DB 7 ACAGCTCCTCCGCTCATGGGGTACTTCTGCTCCAGATACTCGCCAGCTCCA 60

RESULT 13

US-10-057-136-7
; Sequence 7, Application US/10057136
; Publication No. US20030021770A1
; GENERAL INFORMATION:
; APPLICANT: SCHLOM, JEFFREY
; APPLICANT: KANTOR, JUDITH
; APPLICANT: KUEF, DONALD
; APPLICANT: PANICALI, DENNIS
; APPLICANT: GRITZ, LINDA
; TITLE OF INVENTION: RECOMBINANT POX VIRUS FOR IMMUNIZATION AGAINST MUC1
; TITLE OF INVENTION: TUMOR-ASSOCIATED ANTIGEN
; FILE REFERENCE: 700953/47113C
; CURRENT APPLICATION NUMBER: US/10/057,136
; CURRENT FILING DATE: 2002-01-25
; PRIOR APPLICATION NUMBER: 09/366,670
; PRIOR FILING DATE: 1999-08-03
; PRIOR APPLICATION NUMBER: PCT/US98/03693
; PRIOR FILING DATE: 1998-02-24
; PRIOR APPLICATION NUMBER: 60/038,253
; PRIOR FILING DATE: 1997-02-24
; NUMBER OF SEQ ID NOS: 20
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 7
; LENGTH: 60
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-057-136-7

Query Match 48.3%; Score 29; DB 5; Length 60;
Best Local Similarity 71.7%; Pred. No. 0.65;
Matches 38; Conservative 0; Mismatches 15; Indels 0; Gaps 0;

QY 7 ACCGCTCAGCTGCACACGGGGTCACAAGCGCGCCAGACACTGCAGCTGCGCC 59
DB 7 ACGGCCCCCTGCTCAGCGGTGTACATCCGCCCCGATACAGACCGGCCCC 59

RESULT 14

US-10-057-136-11
; Sequence 11, Application US/10057136
; Publication No. US20030021770A1
; GENERAL INFORMATION:
; APPLICANT: SCHLOM, JEFFREY
; APPLICANT: KANTOR, JUDITH
; APPLICANT: KUEF, DONALD
; APPLICANT: PANICALI, DENNIS
; APPLICANT: GRITZ, LINDA
; TITLE OF INVENTION: RECOMBINANT POX VIRUS FOR IMMUNIZATION AGAINST MUC1
; TITLE OF INVENTION: TUMOR-ASSOCIATED ANTIGEN
; FILE REFERENCE: 700953/47113C
; CURRENT APPLICATION NUMBER: US/10/057,136
; CURRENT FILING DATE: 2002-01-25
; PRIOR APPLICATION NUMBER: 09/366,670
; PRIOR FILING DATE: 1999-08-03
; PRIOR APPLICATION NUMBER: PCT/US98/03693
; PRIOR FILING DATE: 1998-02-24
; PRIOR APPLICATION NUMBER: 60/038,253
; PRIOR FILING DATE: 1997-02-24
; NUMBER OF SEQ ID NOS: 20
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 11
; LENGTH: 60
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-057-136-11

Query Match 48.3%; Score 29; DB 5; Length 60;
 Best Local Similarity 71.7%; Pred. No. 0.65;
 Matches 38; Conservative 0; Mismatches 15; Indels 0; Gaps 0;

QY 7 ACCGCTCCACCTGCACAGGGGTACACAGCGCCGACACTGCCTGCGCC 59
 |||||
 Db 7 ACCGCACTCCACGACAGGAGTCACTGTGCACCCGACACCCGCTCCAGCTCC 59

RESULT 15

US-10-057-136-2
 ; Sequence 2, Application US/10057136
 ; Publication No. US20030021770A1
 ; GENERAL INFORMATION:
 ; APPLICANT: SCHLOM, JEFFREY
 ; APPLICANT: KANTOR, JUDITH
 ; APPLICANT: KUFE, DONALD
 ; APPLICANT: PANICALI, DENNIS
 ; APPLICANT: GRITZ, LINDA
 ; TITLE OF INVENTION: RECOMBINANT POX VIRUS FOR IMMUNIZATION AGAINST MUC1
 ; FILE REFERENCE: 700953/47113C
 ; CURRENT APPLICATION NUMBER: US/10/057,136
 ; CURRENT FILING DATE: 2002-01-25
 ; PRIOR APPLICATION NUMBER: 09/366,670
 ; PRIOR FILING DATE: 1999-08-03
 ; PRIOR APPLICATION NUMBER: PCT/US98/03693
 ; PRIOR FILING DATE: 1998-02-24
 ; PRIOR APPLICATION NUMBER: 60/038,253
 ; PRIOR FILING DATE: 1997-02-24
 ; NUMBER OF SEQ ID NOS: 20
 ; SOFTWARE: PatentIn Ver. 2.1
 ; SEQ ID NO 2
 ; LENGTH: 60
 ; TYPE: DNA
 ; ORGANISM: Homo sapiens
 US-10-057-136-2

Query Match 45.7%; Score 27.4; DB 5; Length 60;
 Best Local Similarity 69.8%; Pred. No. 2.5;
 Matches 37; Conservative 0; Mismatches 16; Indels 0; Gaps 0;

QY 7 ACCGCTCCACCTGCACAGGGGTACACAGCGCCGACACTGCCTGCGCC 59
 |||||
 Db 7 ACCGCCCCCAGCCGAGGTGTCACTGCGCCCGGACACAGCGCGCGCC 59

Search completed: March 27, 2006, 17:07:47
 Job time : 372.4 secs

This Page Blank (uspto)

GenCore version 5.1.7
Copyright (c) 1993 - 2006 Bioacceleration Ltd.

OM nucleic - nucleic search, using sw model

Run on: March 27, 2006, 13:48:29 ; Search time 55.5 Seconds
(without alignment)
1921.688 Million cell updates/sec

Title: US-10-057-136A-9
Perfect score: 60
Sequence: 1 GGAGTACCGCTCCACCTGC.....CAGACACTGACCTGCGCCA 60

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 1303057 seqs, 888780828 residues

Total number of hits satisfying chosen parameters: 1790828

Minimum DB seq length: 0
Maximum DB seq length: 500

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued Patents NA:*

1: /cgn2_6/ptodata/1/ina/1_COMB.seq:*
2: /cgn2_6/ptodata/1/ina/5_COMB.seq:*
3: /cgn2_6/ptodata/1/ina/6A_COMB.seq:*
4: /cgn2_6/ptodata/1/ina/6B_COMB.seq:*
5: /cgn2_6/ptodata/1/ina/H_COMB.seq:*
6: /cgn2_6/ptodata/1/ina/PCTUS_COMB.seq:*
7: /cgn2_6/ptodata/1/ina/PP_COMB.seq:*
8: /cgn2_6/ptodata/1/ina/RB_COMB.seq:*
9: /cgn2_6/ptodata/1/ina/backfileseq1.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Query Length	DB ID	Description
1	24.6	41.0	60	3	US-09-475-947A-246 Sequence 246, App
2	23	38.3	461	3	US-09-621-976-3353 Sequence 3353, Ap
3	22.8	38.0	425	3	US-08-956-171E-3693 Sequence 3693, Ap
4	22.8	38.0	425	3	US-08-781-986A-3693 Sequence 3693, Ap
5	22.8	38.0	468	3	US-09-252-991A-682 Sequence 682, App
6	22.2	37.0	124	3	US-08-956-171E-4775 Sequence 4775, Ap
7	22.2	37.0	124	3	US-08-781-986A-4775 Sequence 4775, Ap
8	22.2	37.0	429	3	US-09-252-991A-6811 Sequence 6811, Ap
9	22.2	37.0	482	2	US-08-691-814B-120 Sequence 120, App
10	21.8	36.3	477	3	US-10-152-886-56 Sequence 56, Appl
11	21.6	36.0	143	3	US-09-902-540-5930 Sequence 5930, Ap
12	21.6	36.0	420	3	US-09-902-540-3876 Sequence 3876, Ap
13	21.4	35.7	306	3	US-09-313-294A-5480 Sequence 5480, Ap
14	21.2	35.3	81	2	US-07-744-282C-30 Sequence 30, Appl
15	21.2	35.3	81	6	PCT-US92-06821A-36 Sequence 36, Appl
16	21	35.0	274	3	US-09-621-976-16450 Sequence 16450, A
17	21	35.0	397	9	5200327-7 Patent No. 5200327
18	21	35.0	401	2	US-08-318-193-17 Sequence 17, Appl
19	21	35.0	430	3	US-09-270-767-1874 Sequence 1874, Ap
20	21	35.0	430	3	US-09-270-767-17156 Sequence 17156, A
21	21	35.0	489	3	US-09-902-540-5274 Sequence 5274, Ap
22	20.8	34.7	165	3	US-09-270-767-3201 Sequence 3201, Ap
23	20.8	34.7	165	3	US-09-270-767-18483 Sequence 18483, A
24	20.8	34.7	237	3	US-09-016-434-559 Sequence 559, App

25	20.8	34.7	272	3	US-09-313-294A-903 Sequence 903, App
26	20.6	34.3	214	3	US-09-270-767-26460 Sequence 26460, A
27	20.6	34.3	390	3	US-09-489-039A-3478 Sequence 3478, Ap
28	20.6	34.3	488	3	US-09-364-206-9 Sequence 9, Appl
29	20.4	34.0	201	3	US-09-018-635-32 Sequence 32, Appl
30	20.4	34.0	201	3	US-09-912-962-32 Sequence 32, Appl
31	20.4	34.0	419	3	US-09-513-999C-4045 Sequence 4045, Ap
32	20.4	34.0	472	3	US-09-621-976-1881 Sequence 1881, Ap
33	20.2	33.7	78	3	US-09-304-967-98 Sequence 98, Appl
34	20.2	33.7	218	3	US-09-513-999C-23320 Sequence 23320, A
35	20.2	33.7	290	3	US-09-313-294A-5609 Sequence 5609, Ap
36	20.2	33.7	298	2	US-08-557-309B-14 Sequence 14, Appl
37	20.2	33.7	298	3	US-08-834-306-14 Sequence 14, Appl
38	20.2	33.7	298	3	US-08-993-674A-14 Sequence 14, Appl
39	20.2	33.7	298	3	US-09-902-540-7580 Sequence 7580, Ap
40	20.2	33.7	324	3	US-08-330-108-10 Sequence 10, Appl
41	20.2	33.7	385	2	US-08-330-108-10 Sequence 10, Appl
42	20.2	33.7	385	6	PCT-US92-10087-10 Sequence 10, Appl
43	20.2	33.7	411	3	US-09-252-991A-6702 Sequence 6702, Ap
44	20.2	33.7	411	3	US-09-653-730-4 Sequence 4, Appl
45	20.2	33.7	422	3	US-09-735-271-682 Sequence 682, App

ALIGNMENTS

RESULT 1
US-09-475-947A-246
Sequence 246, Application US/09475947A
Patent No. 6472154
GENERAL INFORMATION:
APPLICANT: Garner, Harold R.
APPLICANT: Wren, Jonathan D.
TITLE OF INVENTION: Polymorphic Repeats in Human Genes
FILE REFERENCE: UTSD0667
CURRENT APPLICATION NUMBER: US/09/475, 947A
CURRENT FILING DATE: 1999-12-31
NUMBER OF SEQ ID NOS: 346
SOFTWARE: Patent In Ver. 2.1
SEQ ID NO 246
LENGTH: 60
TYPE: DNA
ORGANISM: human
US-09-475-947A-246

Query Match 41.0%; Score 24.6; DB 3; Length 60;
Best Local Similarity 70.2%; Pred. No. 16;
Matches 33; Conservative 0; Mismatches 14; Indels 0; Gaps 0;

Qy 7 ACCGCTCCACCTGCACACGGGGTCAACAAGCGCGCCAGACACTCGACC 53
Db 13 ACCGCCCCCAGCCACGGGTCACTCGGCCCGGACACACAGGCC 59

RESULT 2
US-09-621-976-3353
Sequence 3353, Application US/09621976
Patent No. 6639063
GENERAL INFORMATION:
APPLICANT: Dumas Milne Edwards, J.B.
APPLICANT: Jobert, S.
TITLE OF INVENTION: Giordano, J.Y.
FILE REFERENCE: GENSET.054PR2
CURRENT APPLICATION NUMBER: US/09/621, 976
CURRENT FILING DATE: 2000-07-21
NUMBER OF SEQ ID NOS: 19335
SOFTWARE: Patent.pm
SEQ ID NO 3353
LENGTH: 461
TYPE: DNA
ORGANISM: Homo sapiens

FEATURE:
NAME/KEY: CDS
LOCATION: 217..450
US-09-621-976-3353

Query Match 38.3%; Score 23; DB 3; Length 461;
Best Local Similarity 74.4%; Pred. No. 80;
Matches 29; Conservative 0; Mismatches 10; Indels 0; Gaps 0;

QY 8 CCCTCCACCTGCACACGGGTCAAGCGCGCCAGACA 46
| | | | | | | | | | | | | | | | | | | | | |
Db 260 CAGCTCCACCTCCACCGCGGCGCAACCGAGAGACA 298

RESULT 3

US-08-956-171E-3693/c
Sequence 3693, Application US/08956171E
Patent No. 6593114
GENERAL INFORMATION:
APPLICANT: Charles Kunsch
Gil H. Choi
Patrick S. Dillon
Craig A. Rosen
Steven C. Barash
Michael R. Fannon
TITLE OF INVENTION: Staphylococcus aureus Polynucleotides and Sequences
NUMBER OF SEQUENCES: 5256
CORRESPONDENCE ADDRESS:
ADDRESSEE: Human Genome Sciences, Inc.
STREET: 9410 Key West Avenue
CITY: Rockville
STATE: Maryland
COUNTRY: USA
ZIP: 20850
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.50 inch, 1.4Mb storage
COMPUTER: HP Vectra 486/33
OPERATING SYSTEM: MSDOS version 6.2
SOFTWARE: ASCII Text
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/956,171E
FILING DATE: 20-Oct-1997
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 60/009,861
FILING DATE: January 5, 1996
APPLICATION NUMBER: 08/781,986
FILING DATE: January 3, 1997
ATTORNEY/AGENT INFORMATION:
NAME: Mark J. Hyman
REGISTRATION NUMBER: 46,789
REFERENCE/DOCKET NUMBER: PB248P1
TELECOMMUNICATION INFORMATION:
TELEPHONE: (240) 314-1224
TELEFAX: (301) 309-8439
INFORMATION FOR SEQ ID NO: 3693:
SEQUENCE CHARACTERISTICS:
LENGTH: 425 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
SEQUENCE DESCRIPTION: SEQ ID NO: 3693:
US-08-956-171E-3693

Query Match 38.0%; Score 22.8; DB 3; Length 425;
Best Local Similarity 66.0%; Pred. No. 93;
Matches 33; Conservative 0; Mismatches 17; Indels 0; Gaps 0;

QY 11 CTCACCTGCACACGGGTCAAGCGCGCCAGACACTGCACCTGCGCCA 60
| | | | | | | | | | | | | | | | | | | | | |
Db 377 CACCACTGCACACGAGTACCAAGCGCGCAACCAACACCGCCA 328

RESULT 4

US-08-781-986A-3693/c
Sequence 3693, Application US/08781986A
Patent No. 6737248
GENERAL INFORMATION:
APPLICANT: Charles Kunsch
TITLE OF INVENTION: Staphylococcus aureus Polynucleotides and Sequences
NUMBER OF SEQUENCES: 5255
CORRESPONDENCE ADDRESS:
ADDRESSEE: Human Genome Sciences, Inc.
STREET: 9410 Key West Avenue
CITY: Rockville
STATE: Maryland
COUNTRY: USA
ZIP: 20850
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.50 inch, 1.4Mb storage
COMPUTER: HP Vectra 486/33
OPERATING SYSTEM: MSDOS version 6.2
SOFTWARE: ASCII Text
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/781,986A
FILING DATE:
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Benson, Bob
REGISTRATION NUMBER: 30,446
REFERENCE/DOCKET NUMBER: PB248PP
TELECOMMUNICATION INFORMATION:
TELEPHONE: (301) 309-8504
TELEFAX: (301) 309-8512
INFORMATION FOR SEQ ID NO: 3693:
SEQUENCE CHARACTERISTICS:
LENGTH: 425 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
US-08-781-986A-3693

Query Match 38.0%; Score 22.8; DB 3; Length 425;
Best Local Similarity 66.0%; Pred. No. 93;
Matches 33; Conservative 0; Mismatches 17; Indels 0; Gaps 0;

QY 11 CTCACCTGCACACGGGTCAAGCGCGCCAGACACTGCACCTGCGCCA 60
| | | | | | | | | | | | | | | | | | | | | |
Db 377 CACCACTGCACACGAGTACCAAGCGCGCAACCAACACCGCCA 328

RESULT 5

US-09-252-991A-682
Sequence 682, Application US/09252991A
Patent No. 6551795
GENERAL INFORMATION:
APPLICANT: Marc J. Rubenfield et al.
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
FILE REFERENCE: 107196.136
CURRENT APPLICATION NUMBER: US/09/252,991A
CURRENT FILING DATE: 1999-02-18
PRIOR APPLICATION NUMBER: US 60/074,788
PRIOR FILING DATE: 1998-02-18
PRIOR APPLICATION NUMBER: US 60/094,190
PRIOR FILING DATE: 1998-07-27
NUMBER OF SEQ ID NOS: 33142
SEQ ID NO 682
LENGTH: 468
TYPE: DNA
ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-682

Query Match 38.0%; Score 22.8; DB 3; Length 468;
Best Local Similarity 62.1%; Pred. No. 95;
Matches 36; Conservative 0; Mismatches 22; Indels 0; Gaps 0;

QY 2 GAAGTACCGCTCCACCTGCACACGCGGTCAACAAGCGCCGACACTGACCTGCGCC 59
Db 397 GACCTGCCGACACACGACCGCGCTGGAAGCAGCGATGCAGACCTGTCCCGCGCC 454

RESULT 6

US-08-956-171E-4775

; Sequence 4775, Application US/08956171E

; Patent No. 6593114

; GENERAL INFORMATION:

; APPLICANT: Charles Kunsch

; Gil H. Choi

; Patrick S. Dillon

; Craig A. Rosen

; Steven C. Barash

; Michael R. Fannon

; TITLE OF INVENTION: Staphylococcus aureus Polynucleotides and Sequences

; NUMBER OF SEQUENCES: 5256

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Human Genome Sciences, Inc.

; STREET: 9410 Key West Avenue

; CITY: Rockville

; STATE: Maryland

; COUNTRY: USA

; ZIP: 20850

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Diskette, 3.50 inch, 1.4Mb storage

; COMPUTER: HP Vectra 486/33

; OPERATING SYSTEM: MSDOS version 6.2

; SOFTWARE: ASCII Text

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08/956,171E

; FILING DATE: 20-Oct-1997

; CLASSIFICATION: <Unknown>

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: 60/009,861

; FILING DATE: January 5, 1996

; APPLICATION NUMBER: 08/781,986

; FILING DATE: January 3, 1997

; ATTORNEY/AGENT INFORMATION:

; NAME: Mark J. Hyman

; REGISTRATION NUMBER: 46,789

; REFERENCE/DOCKET NUMBER: PB248P1

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: (240) 314-1224

; TELEFAX: (301) 309-8439

; INFORMATION FOR SEQ ID NO: 4775:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 124 base pairs

; TYPE: nucleic acid

; STRANDEDNESS: double

; TOPOLOGY: linear

; SEQUENCE DESCRIPTION: SEQ ID NO: 4775:

US-08-956-171E-4775

Query Match 37.0%; Score 22.2; DB 3; Length 124;
Best Local Similarity 60.0%; Pred. No. 1.2e+02;
Matches 36; Conservative 0; Mismatches 24; Indels 0; Gaps 0;

QY 1 GGAAGTACCGCTCCACCTGCACACGCGGTCAACAAGCGCCGACACTGACCTGCGCCA 60
Db 56 GAAACACCAACACACGACCGACGAGAGTGCAGAGTGCAGAACTTCAACACCGCCA 115

RESULT 7

US-08-781-986A-4775

; Sequence 4775, Application US/08781986A

; Patent No. 6737248

; GENERAL INFORMATION:

; APPLICANT: Charles Kunsch
; TITLE OF INVENTION: Staphylococcus aureus Polynucleotides and Sequences
; NUMBER OF SEQUENCES: 5255
; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Human Genome Sciences, Inc.

; STREET: 9410 Key West Avenue

; CITY: Rockville

; STATE: Maryland

; COUNTRY: USA

; ZIP: 20850

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Diskette, 3.50 inch, 1.4Mb storage

; COMPUTER: HP Vectra 486/33

; OPERATING SYSTEM: MSDOS version 6.2

; SOFTWARE: ASCII Text

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08/781,986A

; FILING DATE:

; CLASSIFICATION: 435

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER:

; FILING DATE:

; ATTORNEY/AGENT INFORMATION:

; NAME: Benson, Bob

; REGISTRATION NUMBER: 30,446

; REFERENCE/DOCKET NUMBER: PB248PP

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: (301) 309-8504

; TELEFAX: (301) 309-8512

; INFORMATION FOR SEQ ID NO: 4775:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 124 base pairs

; TYPE: nucleic acid

; STRANDEDNESS: double

; TOPOLOGY: linear

US-08-781-986A-4775

Query Match 37.0%; Score 22.2; DB 3; Length 124;
Best Local Similarity 60.0%; Pred. No. 1.2e+02;
Matches 36; Conservative 0; Mismatches 24; Indels 0; Gaps 0;

QY 1 GGAAGTACCGCTCCACCTGCACACGCGGTCAACAAGCGCCGACACTGACCTGCGCCA 60
Db 56 GAAACACCAACACACGACCGACGAGAGTGCAGAGTGCAGAACTTCAACACCGCCA 115

RESULT 8

US-09-252-991A-6811/C

; Sequence 6811, Application US/09252991A

; Patent No. 6551795

; GENERAL INFORMATION:

; APPLICANT: Marc J. Rubenfield et al.

; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS

; FILE REFERENCE: 107196.136

; CURRENT APPLICATION NUMBER: US/09/252,991A

; PRIOR FILING DATE: 1999-02-18

; PRIOR APPLICATION NUMBER: US 60/074,788

; PRIOR FILING DATE: 1998-02-18

; PRIOR APPLICATION NUMBER: US 60/094,190

; NUMBER OF SEQ ID NOS: 33142

; SEQ ID NO 6811

; LENGTH: 429

; TYPE: DNA

; ORGANISM: Pseudomonas aeruginosa

US-09-252-991A-6811

Query Match 37.0%; Score 22.2; DB 3; Length 429;
Best Local Similarity 61.0%; Pred. No. 1.5e+02;
Matches 36; Conservative 0; Mismatches 23; Indels 0; Gaps 0;

QY 2 GAAGTACCGCTCCACCTGCACACGCGGTCAACAAGCGCCGACACTGACCTGCGCCA 60

Db 362 GAATATACAGCGCGCATGCAGGCGCCGCTATGCGCGCCAGTGCCTGGCCTGCTCGA 304

RESULT 9

US-08-691-814B-120
; Sequence 120, Application US/08691814B
; Patent No. 5981218

; GENERAL INFORMATION:

; APPLICANT: Rio, Marie-Christine
; APPLICANT: Tomasetto, Catherine
; APPLICANT: Basset, Paul
; APPLICANT: Byrne, Jennifer
; TITLE OF INVENTION: Isolated Nucleic Acid Molecules Useful
; TITLE OF INVENTION: as Leukemia Markers and in Breast Cancer Prognosis
; NUMBER OF SEQUENCES: 124
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Sterne, Kessler, Goldstein & Fox P.L.L.C.
; STREET: 1100 New York Ave, NW, Suite 600
; CITY: Washington
; STATE: DC
; COUNTRY: USA
; ZIP: 20005-3934

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/691,814B
; FILING DATE: 31-JUL-1996
; CLASSIFICATION: 435

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: US 60/002,183
; FILING DATE: 09-AUG-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: Steffe, Eric K.

; REGISTRATION NUMBER: 36,688
; REFERENCE/DOCKET NUMBER: 1383.0090001
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 202-371-2600
; TELEFAX: 202-371-2543

; INFORMATION FOR SEQ ID NO: 120:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 482 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: both
; TOPOLOGY: both
; MOLECULE TYPE: cDNA
; US-08-691-814B-120

Query Match 37.0%; Score 22.2; DB 2; Length 482;
Best Local Similarity 68.2%; Pred. No. 1.5e+02;
Matches 30; Conservative 0; Mismatches 14; Indels 0; Gaps 0;

QY 2 GAAGTACCGCTCCACCTGCACACGGGGTCAAGCGCCGACAC 45
Db 185 GAAGAGCCCTTCATNTTCACACGGGGTGCAGGCTGCCCTGCC 228

RESULT 10

US-10-152-886-56

; Sequence 56, Application US/10152886
; Patent No. 6912470

; GENERAL INFORMATION:

; APPLICANT: ECOPIA BIOSCIENCES INC.
; APPLICANT: Farnet, Chris
; APPLICANT: Staffa, Alfredo
; APPLICANT: Zazopoulos, Emmanuel
; TITLE OF INVENTION: GENES AND PROTEINS INVOLVED IN THE BIOSYNTHESIS OF ENEDIYNE RING
; TITLE OF INVENTION: STRUCTURES
; FILE REFERENCE: 3011-3US
; CURRENT APPLICATION NUMBER: US/10/152,886

; CURRENT FILING DATE: 2002-05-21
; NUMBER OF SEQ ID NOS: 102
; SOFTWARE: Patentin version 3.0
; SEQ ID NO 56
; LENGTH: 477
; TYPE: DNA
; ORGANISM: Klutasosporia sp.
; US-10-152-886-56

Query Match 36.3%; Score 21.8; DB 3; Length 477;
Best Local Similarity 61.4%; Pred. No. 2.1e+02;
Matches 35; Conservative 0; Mismatches 22; Indels 0; Gaps 0;

QY 1 GGAAGTACCGCTCCACCTGCACACGGGGTCAAGCGCGCCGACACTGCACTGCG 57
Db 335 GGACAGACGGGGTCCGCTGCAATGCCGCGCCCAACACGACACCCGCCGACCCGGG 391

RESULT 11

US-09-902-540-5930

; Sequence 5930, Application US/09902540
; Patent No. 6833447

; GENERAL INFORMATION:

; APPLICANT: Goldman, Barry S.
; APPLICANT: Hinkle, Gregory J.
; APPLICANT: Slater, Steven C.
; APPLICANT: Wiegand, Roger C.
; TITLE OF INVENTION: Myxococcus xanthus Genome Sequences and Uses Thereof
; FILE REFERENCE: 38-10(15849)B
; CURRENT APPLICATION NUMBER: US/09/902,540
; CURRENT FILING DATE: 2001-07-10
; PRIOR APPLICATION NUMBER: 60/217,883
; PRIOR FILING DATE: 2000-07-10
; NUMBER OF SEQ ID NOS: 16825

; SEQ ID NO 5930
; LENGTH: 143
; TYPE: DNA
; ORGANISM: Myxococcus xanthus
; US-09-902-540-5930

Query Match 36.0%; Score 21.6; DB 3; Length 143;
Best Local Similarity 75.0%; Pred. No. 2.1e+02;
Matches 27; Conservative 0; Mismatches 9; Indels 0; Gaps 0;

QY 21 ACACGGGGTCAACAGCGCGCGACACTGCACTGCG 56
Db 41 ACTCGCGCTCCAGCGCGCTCCAGCGCGCTGCACTGCG 76

RESULT 12

US-09-902-540-3876

; Sequence 3876, Application US/09902540
; Patent No. 6833447

; GENERAL INFORMATION:

; APPLICANT: Goldman, Barry S.
; APPLICANT: Hinkle, Gregory J.
; APPLICANT: Slater, Steven C.
; APPLICANT: Wiegand, Roger C.
; TITLE OF INVENTION: Myxococcus xanthus Genome Sequences and Uses Thereof
; FILE REFERENCE: 38-10(15849)B
; CURRENT APPLICATION NUMBER: US/09/902,540
; CURRENT FILING DATE: 2001-07-10
; PRIOR APPLICATION NUMBER: 60/217,883
; PRIOR FILING DATE: 2000-07-10
; NUMBER OF SEQ ID NOS: 16825

; SEQ ID NO 3876
; LENGTH: 420
; TYPE: DNA
; ORGANISM: Myxococcus xanthus
; US-09-902-540-3876

Query Match 36.0%; Score 21.6; DB 3; Length 420;
Best Local Similarity 60.0%; Pred. No. 2.4e+02;

Search completed: March 27, 2006, 16:33:30
Job time : 55.5 secs

GenCore version 5.1.7
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OM nucleic - nucleic search, using sw model

Run on: March 27, 2006, 13:53:26 ; Search time 321.3 Seconds
(without alignments)
744.399 Million cell updates/sec

Title: US-10-057-136A-8
Perfect score: 60
Sequence: 1 GGCAGCACCGCACCGCCCGC.....CAGACACTCGACTGCGCCA 60

Scoring table: IDENTITY NUC
Gapop 10.0 , Gapext 1.0

Searched: 9258654 seqs, 1993127192 residues

Total number of hits satisfying chosen parameters: 14431810

Minimum DB seq length: 0
Maximum DB seq length: 500)

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

- Database : Published Applications NA New:*
- 1: /SIDS5/ptodata/2/pubpna/US08_NEW_PUB.seq:*
 - 2: /SIDS5/ptodata/2/pubpna/US06_NEW_PUB.seq:*
 - 3: /SIDS5/ptodata/2/pubpna/US07_NEW_PUB.seq:*
 - 4: /SIDS5/ptodata/2/pubpna/PCT_NEW_PUB.seq:*
 - 5: /SIDS5/ptodata/2/pubpna/US09_NEW_PUB.seq:*
 - 6: /SIDS5/ptodata/2/pubpna/US09_NEW_PUB.seq:*
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 - 9: /SIDS5/ptodata/2/pubpna/US10_NEW_PUB.seq:*
 - 10: /SIDS5/ptodata/2/pubpna/US10_NEW_PUB.seq:*
 - 11: /SIDS5/ptodata/2/pubpna/US11_NEW_PUB.seq:*
 - 12: /SIDS5/ptodata/2/pubpna/US11_NEW_PUB.seq:*
 - 13: /SIDS5/ptodata/2/pubpna/US11_NEW_PUB.seq:*
 - 14: /SIDS5/ptodata/2/pubpna/US11_NEW_PUB.seq:*
 - 15: /SIDS5/ptodata/2/pubpna/US60_NEW_PUB.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB	ID	Description
1	28.8	48.0	468	8	US-10-401-386B-43	Sequence 43, Appl
2	28.6	47.7	328	9	US-10-517-696-41	Sequence 41, Appl
3	22.4	37.3	201	8	US-10-995-561-29215	Sequence 29215, A
4	22.4	37.3	201	14	US-11-124-367A-23149	Sequence 23149, A
5	22	36.7	201	8	US-10-995-561-28952	Sequence 28952, A
6	21.4	35.7	166	11	US-11-051-720-857	Sequence 857, App
7	21.4	35.7	427	6	US-09-925-065A-487647	Sequence 487647, App
8	21.4	35.7	487	6	US-09-925-065A-495321	Sequence 495321, App
9	21.2	35.3	201	14	US-11-124-367A-23150	Sequence 23150, A
10	21.2	35.3	201	14	US-11-124-367A-23151	Sequence 23151, A
11	20.8	34.7	201	14	US-11-124-368A-3602	Sequence 3602, Ap
12	20.8	34.7	201	14	US-11-124-367A-16298	Sequence 16298, A
13	20.8	34.7	374	8	US-10-802-796-567	Sequence 567, App
14	20.8	34.7	497	6	US-09-925-065A-15114	Sequence 15114, A
15	20.8	34.7	497	9	US-10-301-480-116351	Sequence 116351, A
16	20.8	34.7	497	10	US-10-301-480-729760	Sequence 729760, A
17	20.6	34.3	201	14	US-11-124-367A-25550	Sequence 25550, A
18	20.6	34.3	371	6	US-09-925-065A-829767	Sequence 829767, A

C 19	20.6	34.3	371	6	US-09-925-065A-829768	Sequence 829768, A
C 20	20.4	34.0	201	14	US-11-124-367A-4068	Sequence 4068, Ap
C 21	20.4	34.0	201	14	US-11-124-367A-4089	Sequence 4089, Ap
C 22	20.4	34.0	201	14	US-11-124-367A-4110	Sequence 4110, Ap
C 23	20.4	34.0	494	9	US-10-495-662-30	Sequence 30, Appl
C 24	20.4	34.0	494	9	US-10-495-662-31	Sequence 31, Appl
C 25	20.4	34.0	494	9	US-10-495-662-32	Sequence 32, Appl
C 26	20.4	34.0	494	9	US-10-495-662-33	Sequence 33, Appl
C 27	20.4	34.0	494	9	US-10-495-662-34	Sequence 34, Appl
C 28	20.2	33.7	201	8	US-10-995-561-79816	Sequence 79816, A
C 29	20.2	33.7	346	6	US-09-925-065A-22503	Sequence 22503, A
C 30	20.2	33.7	346	9	US-10-301-480-123740	Sequence 123740, A
C 31	20.2	33.7	346	10	US-10-301-480-737149	Sequence 737149, A
C 32	20.2	33.7	452	6	US-09-925-065A-537243	Sequence 537243, A
C 33	20	33.3	200	6	US-09-925-065A-225210	Sequence 225210, A
C 34	20	33.3	201	14	US-11-124-368A-7889	Sequence 7889, Ap
C 35	20	33.3	201	14	US-11-124-368A-7889	Sequence 7889, Ap
C 36	20	33.3	279	6	US-09-925-065A-124694	Sequence 124694, A
C 37	20	33.3	295	6	US-09-925-065A-435299	Sequence 435299, A
C 38	20	33.3	360	6	US-09-925-065A-175337	Sequence 175337, A
C 39	20	33.3	361	10	US-10-301-480-266674	Sequence 266674, A
C 40	20	33.3	361	10	US-10-301-480-880083	Sequence 880083, A
C 41	20	33.3	368	6	US-09-925-065A-435296	Sequence 435296, A
C 42	20	33.3	396	6	US-09-925-065A-435301	Sequence 435301, A
C 43	20	33.3	423	10	US-10-301-480-395506	Sequence 395506, A
C 44	20	33.3	426	10	US-10-301-480-517722	Sequence 517722, A
C 45	20	33.3	426	10	US-10-301-480-1008915	Sequence 1008915, A

ALIGNMENTS

RESULT 1
US-10-401-386B-43
Sequence 43, Application US/10401386B
Publication No. US20050261213A1
GENERAL INFORMATION:
APPLICANT: Patrick Branigan
APPLICANT: Theresa J Goletz
APPLICANT: David M Knight
APPLICANT: Stephen G McCarthy
APPLICANT: Bernard J Scallion
TITLE OF INVENTION: Nucleic Acid Compositions and Methods
TITLE OF INVENTION: for Use
FILE REFERENCE: CEN 310CIP
CURRENT APPLICATION NUMBER: US/10/401,386B
CURRENT FILING DATE: 2003-03-28
PRIOR APPLICATION NUMBER: 10/247,203
PRIOR FILING DATE: 2002-09-19
PRIOR APPLICATION NUMBER: 60/328,371
PRIOR FILING DATE: 2001-10-10
NUMBER OF SEQ ID NOS: 81
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 43
LENGTH: 468
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: CDS
LOCATION: (1)...(468)
US-10-401-386B-43
Query Match 48.0%; Score 28.8; DB 8; Length 468;
Best Local Similarity 69.6%; Pred. No. 2;
Matches 39; Conservative 0; Mismatches 17; Indels 0; Gaps 0;
CY 1 GGCAGCACCGCACCGGGGTACAGCGCGCCAGACACTGCCTGC 56
DB 412 GGCTTCACCGCGCCCGCCAGCCACGGTGTACCTCGGCCCGGACACGAGCGCGC 467
RESULT 2

```
US-10-517-696-41
; Sequence 41, Application US/10517696
; Publication No. US20060051759A1
; GENERAL INFORMATION:
; APPLICANT: diadexus, Inc.
; APPLICANT: Salceda, Susana
; APPLICANT: Macina, Roberto A.
; APPLICANT: Turner, Leah R.
; APPLICANT: Sun, Yongming
; APPLICANT: Liu, Chenghua
; TITLE OF INVENTION: Compositions and Methods Relating to Breast Specific Genes and PR
; FILE REFERENCE: DEX-0432
; CURRENT APPLICATION NUMBER: US/10/517,696
; PRIOR FILING DATE: 2004-12-13
; PRIOR APPLICATION NUMBER: US 60/389,327
; PRIOR FILING DATE: 2002-06-14
; NUMBER OF SEQ ID NOS: 171
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 41
; LENGTH: 328
; TYPE: DNA
; ORGANISM: Homo sapien
US-10-517-696-41
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```
Query Match          47.7%; Score 28.6; DB 9; Length 328;
Best Local Similarity 67.8%; Pred. No. 2.4;
Matches 40; Conservative 0; Mismatches 19; Indels 0; Gaps 0;
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```
OY      1 GGACAGACCGCACCGCGGTGTCACAAAGCGCCAGACACTGCAGCTGGCC 59
      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db      95 GGCTCCACCGCGCGCCGACCGGAGTGTACCTCGGCCCGGACACCGAGCGCGCC 153
```

```
RESULT 3
US-10-995-561-29215/c
; Sequence 29215, Application US/10995561
; Publication No. US20050272054A1
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele et al.
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; TITLE OF INVENTION: CARDIOVASCULAR DISORDERS AND DRUG RESPONSE, METHODS OF
; TITLE OF INVENTION: DETECTION AND USES THEREOF
; FILE REFERENCE: CL001559
; CURRENT APPLICATION NUMBER: US/10/995,561
; CURRENT FILING DATE: 2004-11-24
; NUMBER OF SEQ ID NOS: 85702
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 29215
; LENGTH: 201
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-995-561-29215
```

```
Query Match          37.3%; Score 22.4; DB 8; Length 201;
Best Local Similarity 72.5%; Pred. No. 2.8e+02;
Matches 29; Conservative 0; Mismatches 11; Indels 0; Gaps 0;
```

```
OY      1 GGACAGACCGCACCGCGGTGTCACAAAGCGCC 40
      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db      109 GGACGCCCGCTCCGCCCCACACCGCGGTGACACCTGCC 70
```

```
RESULT 4
US-11-124-367A-23149/c
; Sequence 23149, Application US/11124367A
; Publication No. US20060024700A1
; GENERAL INFORMATION:
; APPLICANT: Michele Cargill
; APPLICANT: Hongjin Huang
; TITLE OF INVENTION: Genetic Polymorphisms Associated with
; TITLE OF INVENTION: Fibrosis Methods of Detection and Uses Thereof
; FILE REFERENCE: CL001519.ORD
; CURRENT APPLICATION NUMBER: US/11/124,367A
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; CURRENT FILING DATE: 2005-05-09
; PRIOR APPLICATION NUMBER: US 60/568,846
; PRIOR FILING DATE: 2004-05-07
; PRIOR APPLICATION NUMBER: US 60/582,609
; PRIOR FILING DATE: 2004-06-25
; PRIOR APPLICATION NUMBER: US 60/599,554
; PRIOR FILING DATE: 2004-08-09
; NUMBER OF SEQ ID NOS: 34460
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 23149
; LENGTH: 201
; TYPE: DNA
; ORGANISM: Homo sapiens
US-11-124-367A-23149
```

```
Query Match          37.3%; Score 22.4; DB 14; Length 201;
Best Local Similarity 64.0%; Pred. No. 2.8e+02;
Matches 32; Conservative 1; Mismatches 17; Indels 0; Gaps 0;
```

```
OY      11 CACCGCCCGCACCGGGTGTACAGCGCGCCAGACACTGCAGCTGGCCA 60
      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db      145 CACCTACCGGACTGGGTGTCAGAGAGCGCGCCTCACTCCTCRCTCCA 96
```

```
RESULT 5
US-10-995-561-28952/c
; Sequence 28952, Application US/10995561
; Publication No. US20050272054A1
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele et al.
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; TITLE OF INVENTION: CARDIOVASCULAR DISORDERS AND DRUG RESPONSE, METHODS OF
; TITLE OF INVENTION: DETECTION AND USES THEREOF
; FILE REFERENCE: CL001559
; CURRENT APPLICATION NUMBER: US/10/995,561
; CURRENT FILING DATE: 2004-11-24
; NUMBER OF SEQ ID NOS: 85702
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 28952
; LENGTH: 201
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-995-561-28952
```

```
Query Match          36.7%; Score 22; DB 8; Length 201;
Best Local Similarity 70.0%; Pred. No. 3.8e+02;
Matches 28; Conservative 1; Mismatches 11; Indels 0; Gaps 0;
```

```
OY      1 GGACAGACCGCACCGCGCGGTGTCACAGCGGC 40
      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db      114 GGACGCCCGGCTCGGCCCCACACCGCGGTGACACCTGCC 75
```

```
RESULT 6
US-11-051-720-857/c
; Sequence 857, Application US/11051720
; Publication No. US20060046257A1
; GENERAL INFORMATION:
; APPLICANT: CompuGen Ltd
; TITLE OF INVENTION: NOVEL NUCLEOTIDE AND AMINO ACID SEQUENCES, AND ASSAYS AND METHODS
; TITLE OF INVENTION: THEREOF FOR DIAGNOSIS OF LUNG CANCER
; FILE REFERENCE: 1847.1002
; CURRENT APPLICATION NUMBER: US/11/051,720
; CURRENT FILING DATE: 2005-01-27
; NUMBER OF SEQ ID NOS: 1780
; SEQ ID NO 857
; LENGTH: 166
; TYPE: DNA
; ORGANISM: Artificial
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-11-051-720-857
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Query Match 35.3%; Score 21.2; DB 14; Length 201;
Best Local Similarity 64.0%; Pred. No. 7e+02;
Matches 32; Conservative 0; Mismatches 18; Indels 0; Gaps 0;

Oy 11 CACCGCCGACACGGGGTCACAGCGCCGACGACTCGACCTGCCA 60
DB 70 CACTTACCGACTCGGTGTCCAGAGCGCGCTCACTCACTCACTCCA 21

RESULT 11

US-11-124-368A-3602
; Sequence 3602, Application US/11124368A
; Publication No. US20050287559A1
; GENERAL INFORMATION:
; APPLICANT: Michele Cargill
; APPLICANT: James J. Devlin
; APPLICANT: May Luke
; TITLE OF INVENTION: Genetic Polymorphisms Associated with
; TITLE OF INVENTION: Vascular Diseases, Methods of Detection and Uses Thereof
; FILE REFERENCE: CL001524
; CURRENT APPLICATION NUMBER: US/11/124,368A
; PRIOR FILING DATE: 2005-05-09
; PRIOR APPLICATION NUMBER: US 60/568,845
; PRIOR FILING DATE: 2004-05-07
; PRIOR APPLICATION NUMBER: US 60/625,936
; PRIOR FILING DATE: 2004-11-09
; NUMBER OF SEQ ID NOS: 21112
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 3602
; LENGTH: 201
; TYPE: DNA
; ORGANISM: Homo sapiens
US-11-124-368A-3602

Query Match 34.7%; Score 20.8; DB 14; Length 201;
Best Local Similarity 64.6%; Pred. No. 9.5e+02;
Matches 31; Conservative 0; Mismatches 17; Indels 0; Gaps 0;

Oy 5 GCACCGCACCGCCGACACGCGGTCAAGCGCGCCAGACACTGCAC 52
DB 132 GCAGTGCACGAGACACAAGGGGCTCAGCTGCACCCAGACCCCGGC 179

RESULT 12

US-11-124-367A-16298
; Sequence 16298, Application US/11124367A
; Publication No. US20060024700A1
; GENERAL INFORMATION:
; APPLICANT: Michele Cargill
; APPLICANT: Hongjin Huang
; TITLE OF INVENTION: Genetic Polymorphisms Associated with
; TITLE OF INVENTION: Fibrosis Methods of Detection and Uses Thereof
; FILE REFERENCE: CL001519.ORD
; CURRENT APPLICATION NUMBER: US/11/124,367A
; PRIOR FILING DATE: 2005-05-09
; PRIOR APPLICATION NUMBER: US 60/568,846
; PRIOR FILING DATE: 2004-05-07
; PRIOR APPLICATION NUMBER: US 60/582,609
; PRIOR FILING DATE: 2004-06-25
; PRIOR APPLICATION NUMBER: US 60/599,554
; PRIOR FILING DATE: 2004-08-09
; NUMBER OF SEQ ID NOS: 34460
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 16298
; LENGTH: 201
; TYPE: DNA
; ORGANISM: Homo sapiens
US-11-124-367A-16298

Query Match 34.7%; Score 20.8; DB 14; Length 201;
Best Local Similarity 60.7%; Pred. No. 9.5e+02;
Matches 34; Conservative 0; Mismatches 22; Indels 0; Gaps 0;

Oy 1 GGCAGCACCGCACCGCCGACACGCGGGTCACAGCGCGCCGACACTCGACTGC 56
DB 123 GCGCGCACCTCTGTGCCCCAGCCAGGGGTCTGTGACCCCGAGGCTCCTCC 178

RESULT 13

US-10-802-796-567
; Sequence 567, Application US/10802796
; Publication No. US20050250104A1
; GENERAL INFORMATION:
; APPLICANT: COLE, STEWART
; APPLICANT: BUCHRIESEN-BROSCH, ROLAND
; APPLICANT: GORDON, STEPHEN
; APPLICANT: BILLAULT, ALAIN
; TITLE OF INVENTION: A METHOD FOR ISOLATING A POLYNUCLEOTIDE OF INTEREST
; TITLE OF INVENTION: FROM THE GENOME OF A MYCOBACTERIUM USING A BAC-BASED
; TITLE OF INVENTION: DNA LIBRARY, APPLICATION TO THE DETECTION OF
; FILE REFERENCE: 05394.0011-00000
; CURRENT APPLICATION NUMBER: US/10/802,796
; PRIOR FILING DATE: 2004-03-18
; PRIOR APPLICATION NUMBER: US/09/673,476
; PRIOR FILING DATE: 2002-03-29
; PRIOR APPLICATION NUMBER: PCT/IB99/00740
; PRIOR FILING DATE: 1999-04-16
; PRIOR APPLICATION NUMBER: 09/060,756
; NUMBER OF SEQ ID NOS: 743
; SOFTWARE: PatentIn Ver. 2.2
; SEQ ID NO 567
; LENGTH: 374
; TYPE: DNA
; ORGANISM: Mycobacterium tuberculosis

FEATURE:
; NAME/KEY: modified_base
; LOCATION: (13)
; OTHER INFORMATION: a, t, c or g
FEATURE:
; NAME/KEY: modified_base
; LOCATION: (15)
; OTHER INFORMATION: a, t, c or g
FEATURE:
; NAME/KEY: modified_base
; LOCATION: (20)
; OTHER INFORMATION: a, t, c or g
FEATURE:
; NAME/KEY: modified_base
; LOCATION: (23)
; OTHER INFORMATION: a, t, c or g
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; NAME/KEY: modified_base
; LOCATION: (205)
; OTHER INFORMATION: a, t, c or g
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; NAME/KEY: modified_base
; LOCATION: (262)
; OTHER INFORMATION: a, t, c or g
FEATURE:
; NAME/KEY: modified_base
; LOCATION: (268)
; OTHER INFORMATION: a, t, c or g
FEATURE:
; NAME/KEY: modified_base
; LOCATION: (275)
; OTHER INFORMATION: a, t, c or g
FEATURE:
; NAME/KEY: modified_base
; LOCATION: (327)
; OTHER INFORMATION: a, t, c or g

US-10-802-796-567

Query Match 34.7%; Score 20.8; DB 8; Length 374;
Best Local Similarity 59.6%; Pred. No. 8.9e+02;
Matches 31; Conservative 0; Mismatches 21; Indels 0; Gaps 0;

QY 2 GCAGACCGCACCGCCGCACACAGGGGTCAACAGCGCCGACACTCGACC 53
Db 10 GCCNCGCCGANCNCGCCGTACGCCCGCCGACCGCGGTACCGCGCACCGGACC 61

RESULT 14

US-09-925-065A-15114/c
; Sequence 15114, Application US/09925065A
; Publication No. US20040181048A1
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single
; FILE REFERENCE: 108827.135
; CURRENT APPLICATION NUMBER: US/09/925, 065A
; PRIOR FILING DATE: 2001-08-08
; PRIOR APPLICATION NUMBER: US 60/243, 096
; PRIOR FILING DATE: 2000-10-24
; PRIOR APPLICATION NUMBER: US 60/252, 147
; PRIOR FILING DATE: 2000-11-20
; PRIOR APPLICATION NUMBER: US 60/250, 092
; PRIOR FILING DATE: 2000-11-30
; PRIOR APPLICATION NUMBER: US 60/261, 766
; PRIOR FILING DATE: 2001-01-16
; PRIOR APPLICATION NUMBER: US 60/289, 846
; NUMBER OF SEQ ID NOS: 957086
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 15114
; LENGTH: 497
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-925-065A-15114

Query Match 34.7%; Score 20.8; DB 6; Length 497;
Best Local Similarity 64.6%; Pred. No. 8.6e+02;
Matches 31; Conservative 0; Mismatches 17; Indels 0; Gaps 0;

QY 1 GGACAGACCGCACCGCCGCACACAGGGGTCAACAGCGCCGACACT 48
Db 463 GGACGCTTCATACCACTCGAAGGGGACACAACTTCACTTACTCT 416

RESULT 15

US-10-301-480-116351/c
; Sequence 116351, Application US/10301480
; Publication No. US20060057564A1
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single Nucleotide Polymorphisms
; FILE REFERENCE: 108827.137
; CURRENT APPLICATION NUMBER: US/10/301, 480
; PRIOR FILING DATE: 2002-11-21
; PRIOR APPLICATION NUMBER: US 10/215, 598
; PRIOR FILING DATE: 2002-08-09
; PRIOR APPLICATION NUMBER: US 60/311, 695
; PRIOR FILING DATE: 2001-08-10
; NUMBER OF SEQ ID NOS: 1226818
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 116351
; LENGTH: 497
; TYPE: DNA
; ORGANISM: Homo sapien
US-10-301-480-116351

Query Match 34.7%; Score 20.8; DB 9; Length 497;

Best Local Similarity 64.6%; Pred. No. 8.6e+02;
Matches 31; Conservative 0; Mismatches 17; Indels 0; Gaps 0;

QY 1 GGACAGACCGCACCGCCCGCACACAGGGGTCAACAGCGCCGACACT 48
Db 463 GGACGCTTCATACCACTCGAAGGGGACACAACTTCACTTACTCT 416

Search completed: March 27, 2006, 14:47:10
Job time : 321.3 secs

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OM nucleic - nucleic search, using sw model

Run on: March 27, 2006, 13:49:57 ; Search time 371.4 Seconds
(without alignments)
1335.925 Million cell updates/sec

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Perfect score: 60
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Gapop 10.0 , Gapext 1.0

Searched: 9793542 seqs, 4134689005 residues

Total number of hits satisfying chosen parameters: 14089978

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Maximum DB seq length: 500

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB	ID	Description
1	60	100.0	60	5	US-10-057-136-8	Sequence 8, Appli
2	52	86.7	60	5	US-10-057-136-9	Sequence 9, Appli
3	36.6	61.0	60	5	US-10-057-136-12	Sequence 12, Appli
4	33.4	55.7	60	5	US-10-057-136-4	Sequence 4, Appli
5	31.8	53.0	60	5	US-10-057-136-5	Sequence 5, Appli
6	30.6	51.0	60	5	US-10-057-136-11	Sequence 11, Appli
7	30.2	50.3	60	5	US-10-057-136-2	Sequence 2, Appli
8	30.2	50.3	78	5	US-10-057-136-13	Sequence 13, Appli
9	30	50.0	60	5	US-10-057-136-6	Sequence 6, Appli
10	29	48.3	120	8	US-10-635-211-3	Sequence 3, Appli
c 11	29	48.3	162	8	US-10-635-211-8	Sequence 8, Appli
12	27.6	46.0	362	8	US-10-425-115-18356	Sequence 18356, A
13	27.4	45.7	60	5	US-10-057-136-7	Sequence 7, Appli
14	27.2	45.3	72	7	US-10-296-734-1165	Sequence 1165, Ap
15	27.2	45.3	300	5	US-10-076-555-221	Sequence 221, App
16	27.2	45.3	300	9	US-10-779-543-221	Sequence 221, App
17	27.2	45.3	300	9	US-10-779-543-1253	Sequence 1253, Ap
18	25.6	42.7	60	5	US-10-057-136-14	Sequence 14, Appli
19	25.4	42.3	93	7	US-10-471-607-3	Sequence 3, Appli
20	25.4	42.3	156	7	US-10-471-607-5	Sequence 5, Appli
21	25.4	42.3	157	7	US-10-471-607-6	Sequence 6, Appli
22	25.4	42.3	157	7	US-10-471-607-9	Sequence 9, Appli
c 23	25.4	42.3	350	8	US-10-425-115-119587	Sequence 119587,

24	25.2	42.0	164	3	US-09-864-864-258	Sequence 258, App
25	25	41.7	477	5	US-10-152-886-56	Sequence 56, Appl
26	25	41.7	477	10	US-11-053-576-56	Sequence 56, Appl
27	25	41.7	477	10	US-11-053-052-56	Sequence 56, Appl
28	24.4	40.7	277	7	US-10-767-701-301	Sequence 301, App
29	24.4	40.7	495	8	US-10-425-115-168514	Sequence 168514,
30	24	40.0	300	9	US-10-779-543-982	Sequence 982, App
c 31	23.8	39.7	150	7	US-10-437-963-6080	Sequence 6080, Ap
32	23.6	39.3	60	5	US-10-057-136-10	Sequence 10, Appli
33	23.6	39.3	60	7	US-10-716-293-214	Sequence 214, App
34	23.4	39.0	171	7	US-10-437-963-46567	Sequence 46567, A
35	23.4	39.0	342	7	US-10-437-963-91177	Sequence 91177, A
36	23.4	39.0	390	7	US-10-437-963-25263	Sequence 25263, A
37	23.4	39.0	438	9	US-10-450-763-21478	Sequence 21478, A
38	23.2	38.7	371	7	US-10-437-963-21821	Sequence 21821, A
c 39	23	38.3	425	2	US-08-781-986A-3693	Sequence 3693, Ap
c 40	23	38.3	425	7	US-10-329-624-3693	Sequence 3693, Ap
c 41	23	38.3	456	6	US-10-156-761-6796	Sequence 6796, Ap
c 42	22.8	38.0	306	7	US-10-437-963-76674	Sequence 76674, A
c 43	22.8	38.0	339	6	US-10-007-926A-127	Sequence 127, App
c 44	22.8	38.0	355	3	US-09-738-973-135	Sequence 135, App
c 45	22.8	38.0	355	3	US-09-854-133-135	Sequence 135, App

ALIGNMENTS

RESULT 1
US-10-057-136-8
; Sequence 8, Application US/10057136
; Publication No. US20030021770A1
; GENERAL INFORMATION:
; APPLICANT: SCHLOM, JEFFREY
; APPLICANT: KANTOR, JUDITH
; APPLICANT: KUFE, DONALD
; APPLICANT: PANICALI, DENNIS
; APPLICANT: GRITZ, LINDA
; TITLE OF INVENTION: RECOMBINANT POX VIRUS FOR IMMUNIZATION AGAINST MUC1
; FILE REFERENCE: 700953/47113C
; CURRENT APPLICATION NUMBER: US/10/057,136
; CURRENT FILING DATE: 2002-01-25
; PRIOR APPLICATION NUMBER: 09/366,670
; PRIOR FILING DATE: 1999-08-03
; PRIOR APPLICATION NUMBER: PCT/US98/03693
; PRIOR FILING DATE: 1998-02-24
; PRIOR APPLICATION NUMBER: 60/038,253
; PRIOR FILING DATE: 1997-02-24
; NUMBER OF SEQ ID NOS: 20
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 8
; LENGTH: 60
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-057-136-8

Query Match 100.0%; Score 60; DB 5; Length 60;
Best Local Similarity 100.0%; Pred. No. 2.2e-11;
Matches 60; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GGCAGCACCGCAGCCGCCGACACGAGGTTCACAGCGCGCAGACACTGACCTGCGCCA 60
Db 1 GGCAGCACCGCAGCCGCCGACACGAGGTTCACAGCGCGCAGACACTGACCTGCGCCA 60

RESULT 2
US-10-057-136-9
; Sequence 9, Application US/10057136
; Publication No. US20030021770A1
; GENERAL INFORMATION:
; APPLICANT: SCHLOM, JEFFREY
; APPLICANT: KANTOR, JUDITH
; APPLICANT: KUFE, DONALD

```
; APPLICANT: PANICALI, DENNIS
; APPLICANT: GRITZ, LINDA
; TITLE OF INVENTION: RECOMBINANT POX VIRUS FOR IMMUNIZATION AGAINST MUC1
; TITLE OF INVENTION: TUMOR-ASSOCIATED ANTIGEN
; FILE REFERENCE: 700953/47113C
; CURRENT APPLICATION NUMBER: US/10/057,136
; CURRENT FILING DATE: 2002-01-25
; PRIOR APPLICATION NUMBER: 09/366,670
; PRIOR FILING DATE: 1999-08-03
; PRIOR APPLICATION NUMBER: PCT/US98/03693
; PRIOR FILING DATE: 1998-02-24
; PRIOR APPLICATION NUMBER: 60/038,253
; PRIOR FILING DATE: 1997-02-24
; NUMBER OF SEQ ID NOS: 20
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 9
; LENGTH: 60
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-057-136-9
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Query Match      86.7%; Score 52; DB 5; Length 60;
Best Local Similarity 91.7%; Pred. No. 1.3e-08;
Matches 55; Conservative 0; Mismatches 5; Indels 0; Gaps 0;
```

```
QY      1 GGCAGACCGCAGCCCGCCGACACGGGGTCAAGCGCCGACACTCGACCTGGCCCA 60
      |||||
Db      1 GGAAGTACCGCTCCACTGACACACGGGGTCAAGCGCCGACACTCGACCTGGCCCA 60
```

RESULT 3

```
US-10-057-136-12
; Sequence 12, Application US/10057136
; Publication No. US20030021770A1
; GENERAL INFORMATION:
; APPLICANT: SCHLOM, JEFFREY
; APPLICANT: KANTOR, JUDITH
; APPLICANT: KUFU, DONALD
; APPLICANT: PANICALI, DENNIS
; APPLICANT: GRITZ, LINDA
; TITLE OF INVENTION: RECOMBINANT POX VIRUS FOR IMMUNIZATION AGAINST MUC1
; TITLE OF INVENTION: TUMOR-ASSOCIATED ANTIGEN
; FILE REFERENCE: 700953/47113C
; CURRENT APPLICATION NUMBER: US/10/057,136
; CURRENT FILING DATE: 2002-01-25
; PRIOR APPLICATION NUMBER: 09/366,670
; PRIOR FILING DATE: 1999-08-03
; PRIOR APPLICATION NUMBER: PCT/US98/03693
; PRIOR FILING DATE: 1998-02-24
; PRIOR APPLICATION NUMBER: 60/038,253
; PRIOR FILING DATE: 1997-02-24
; NUMBER OF SEQ ID NOS: 20
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 12
; LENGTH: 60
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-057-136-12
```

```
Query Match      61.0%; Score 36.6; DB 5; Length 60;
Best Local Similarity 76.3%; Pred. No. 0.0031;
Matches 45; Conservative 0; Mismatches 14; Indels 0; Gaps 0;
```

```
QY      1 GGCAGACCGCAGCCCGCCGACACGGGGTCAAGCGCCGACACTCGACCTGGCC 59
      |||||
Db      1 GGTAGTACAGCGCCACCGCACATGGCTCAGAGCGCTCCGATACGAGACCGCGCC 59
```

RESULT 4

```
US-10-057-136-4
; Sequence 4, Application US/10057136
; Publication No. US20030021770A1
; GENERAL INFORMATION:
```

```
; APPLICANT: SCHLOM, JEFFREY
; APPLICANT: KANTOR, JUDITH
; APPLICANT: KUFU, DONALD
; APPLICANT: PANICALI, DENNIS
; APPLICANT: GRITZ, LINDA
; TITLE OF INVENTION: RECOMBINANT POX VIRUS FOR IMMUNIZATION AGAINST MUC1
; TITLE OF INVENTION: TUMOR-ASSOCIATED ANTIGEN
; FILE REFERENCE: 700953/47113C
; CURRENT APPLICATION NUMBER: US/10/057,136
; CURRENT FILING DATE: 2002-01-25
; PRIOR APPLICATION NUMBER: 09/366,670
; PRIOR FILING DATE: 1999-08-03
; PRIOR APPLICATION NUMBER: PCT/US98/03693
; PRIOR FILING DATE: 1998-02-24
; PRIOR APPLICATION NUMBER: 60/038,253
; PRIOR FILING DATE: 1997-02-24
; NUMBER OF SEQ ID NOS: 20
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 4
; LENGTH: 60
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-057-136-4
```

```
Query Match      55.7%; Score 33.4; DB 5; Length 60;
Best Local Similarity 72.9%; Pred. No. 0.04;
Matches 43; Conservative 0; Mismatches 16; Indels 0; Gaps 0;
```

```
QY      1 GGCAGACCGCAGCCCGCCGACACGGGGTCAAGCGCCGACACTCGACCTGGCC 59
      |||||
Db      1 GGCAGTACTGACACACCGGCACATGGCTAATCATGACACCTGATACAGACCTGCACC 59
```

RESULT 5

```
US-10-057-136-5
; Sequence 5, Application US/10057136
; Publication No. US20030021770A1
; GENERAL INFORMATION:
; APPLICANT: SCHLOM, JEFFREY
; APPLICANT: KANTOR, JUDITH
; APPLICANT: KUFU, DONALD
; APPLICANT: PANICALI, DENNIS
; APPLICANT: GRITZ, LINDA
; TITLE OF INVENTION: RECOMBINANT POX VIRUS FOR IMMUNIZATION AGAINST MUC1
; TITLE OF INVENTION: TUMOR-ASSOCIATED ANTIGEN
; FILE REFERENCE: 700953/47113C
; CURRENT APPLICATION NUMBER: US/10/057,136
; CURRENT FILING DATE: 2002-01-25
; PRIOR APPLICATION NUMBER: 09/366,670
; PRIOR FILING DATE: 1999-08-03
; PRIOR APPLICATION NUMBER: PCT/US98/03693
; PRIOR FILING DATE: 1998-02-24
; PRIOR APPLICATION NUMBER: 60/038,253
; PRIOR FILING DATE: 1997-02-24
; NUMBER OF SEQ ID NOS: 20
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 5
; LENGTH: 60
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-057-136-5
```

```
Query Match      53.0%; Score 31.8; DB 5; Length 60;
Best Local Similarity 71.2%; Pred. No. 0.15;
Matches 42; Conservative 0; Mismatches 17; Indels 0; Gaps 0;
```

```
QY      1 GGCAGACCGCAGCCCGCCGACACGGGGTCAAGCGCCGACACTCGACCTGGCC 59
      |||||
Db      1 GGATCCACCGCGCCGCTGCGCAGGAGTGACGTGCGCGCCGACACGCGCGCGCTCC 59
```

RESULT 6

```
US-10-057-136-11
```

```
; Sequence 11, Application US/10057136
; Publication No. US20030021770A1
; GENERAL INFORMATION:
; APPLICANT: SCHLOM, JEFFREY
; APPLICANT: KANTOR, JUDITH
; APPLICANT: KUFE, DONALD
; APPLICANT: PANICALI, DENNIS
; APPLICANT: GRITZ, LINDA
; TITLE OF INVENTION: RECOMBINANT POX VIRUS FOR IMMUNIZATION AGAINST MUC1
; FILE REFERENCE: 700953/47113C
; CURRENT APPLICATION NUMBER: US/10/057,136
; CURRENT FILING DATE: 2002-01-25
; PRIOR APPLICATION NUMBER: 09/366,670
; PRIOR FILING DATE: 1999-08-03
; PRIOR APPLICATION NUMBER: PCT/US98/03693
; PRIOR FILING DATE: 1998-02-24
; PRIOR APPLICATION NUMBER: 60/038,253
; PRIOR FILING DATE: 1997-02-24
; NUMBER OF SEQ ID NOS: 20
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 11
; LENGTH: 60
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-057-136-11
```

```
Query Match          51.0%; Score 30.6; DB 5; Length 60;
Best Local Similarity 73.6%; Pred. No. 0.38;
Matches 39; Conservative 0; Mismatches 14; Indels 0; Gaps 0;
```

```
QY 7 ACCGCACCGCCCGCACACGGGGTCAACAAGCGCCGACACTGACCTGCGCC 59
Db 7 ACGGCACTTCAGACACAGGAGTCACTGTGACCCGACCCGTCAGCTCC 59
```

```
RESULT 7
US-10-057-136-2
; Sequence 2, Application US/10057136
; Publication No. US20030021770A1
; GENERAL INFORMATION:
; APPLICANT: SCHLOM, JEFFREY
; APPLICANT: KANTOR, JUDITH
; APPLICANT: KUFE, DONALD
; APPLICANT: PANICALI, DENNIS
; APPLICANT: GRITZ, LINDA
; TITLE OF INVENTION: RECOMBINANT POX VIRUS FOR IMMUNIZATION AGAINST MUC1
; FILE REFERENCE: 700953/47113C
; CURRENT APPLICATION NUMBER: US/10/057,136
; CURRENT FILING DATE: 2002-01-25
; PRIOR APPLICATION NUMBER: 09/366,670
; PRIOR FILING DATE: 1999-08-03
; PRIOR APPLICATION NUMBER: PCT/US98/03693
; PRIOR FILING DATE: 1998-02-24
; PRIOR APPLICATION NUMBER: 60/038,253
; PRIOR FILING DATE: 1997-02-24
; NUMBER OF SEQ ID NOS: 20
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2
; LENGTH: 60
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-057-136-2
```

```
Query Match          50.3%; Score 30.2; DB 5; Length 60;
Best Local Similarity 69.5%; Pred. No. 0.52;
Matches 41; Conservative 0; Mismatches 18; Indels 0; Gaps 0;
```

```
QY 1 GGCAGACCGCACCGCCGACACAGGGGTCAACAAGCGCCGACACTGACCTGCGCC 59
Db 1 GGCTCCACCGCCCCCGACCGCCGACGCTGTCACTCGGCCCGGACACCAAGCGCGCCC 59
```

```
RESULT 8
US-10-057-136-13
; Sequence 13, Application US/10057136
; Publication No. US20030021770A1
; GENERAL INFORMATION:
; APPLICANT: SCHLOM, JEFFREY
; APPLICANT: KANTOR, JUDITH
; APPLICANT: KUFE, DONALD
; APPLICANT: PANICALI, DENNIS
; APPLICANT: GRITZ, LINDA
; TITLE OF INVENTION: RECOMBINANT POX VIRUS FOR IMMUNIZATION AGAINST MUC1
; FILE REFERENCE: 700953/47113C
; CURRENT APPLICATION NUMBER: US/10/057,136
; CURRENT FILING DATE: 2002-01-25
; PRIOR APPLICATION NUMBER: 09/366,670
; PRIOR FILING DATE: 1999-08-03
; PRIOR APPLICATION NUMBER: PCT/US98/03693
; PRIOR FILING DATE: 1998-02-24
; PRIOR APPLICATION NUMBER: 60/038,253
; PRIOR FILING DATE: 1997-02-24
; NUMBER OF SEQ ID NOS: 20
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 13
; LENGTH: 78
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-057-136-13
```

```
Query Match          50.3%; Score 30.2; DB 5; Length 78;
Best Local Similarity 69.5%; Pred. No. 0.51;
Matches 41; Conservative 0; Mismatches 18; Indels 0; Gaps 0;
```

```
QY 1 GGCAGACCGCACCGCCGACACGGGGTCAACAAGCGCCGACACTGACCTGCGCC 59
Db 1 GGCTCCACCGCACCGCCGACGCTGTCACTCGGCCCGGACACCAAGCGCGCCC 59
```

```
RESULT 9
US-10-057-136-6
; Sequence 6, Application US/10057136
; Publication No. US20030021770A1
; GENERAL INFORMATION:
; APPLICANT: SCHLOM, JEFFREY
; APPLICANT: KANTOR, JUDITH
; APPLICANT: KUFE, DONALD
; APPLICANT: PANICALI, DENNIS
; APPLICANT: GRITZ, LINDA
; TITLE OF INVENTION: RECOMBINANT POX VIRUS FOR IMMUNIZATION AGAINST MUC1
; FILE REFERENCE: 700953/47113C
; CURRENT APPLICATION NUMBER: US/10/057,136
; CURRENT FILING DATE: 2002-01-25
; PRIOR APPLICATION NUMBER: 09/366,670
; PRIOR FILING DATE: 1999-08-03
; PRIOR APPLICATION NUMBER: PCT/US98/03693
; PRIOR FILING DATE: 1998-02-24
; PRIOR APPLICATION NUMBER: 60/038,253
; PRIOR FILING DATE: 1997-02-24
; NUMBER OF SEQ ID NOS: 20
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 6
; LENGTH: 60
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-057-136-6
```

```
Query Match          50.0%; Score 30; DB 5; Length 60;
Best Local Similarity 72.2%; Pred. No. 0.62;
Matches 39; Conservative 0; Mismatches 15; Indels 0; Gaps 0;
```

```
QY 7 ACCGCACCGCCCGCACACGGGGTCAACAAGCGCCGACACTGACCTGCGCCA 60
```


Db 7 ACAGCTCCTCCCGCTCATGGGTACTTCTGTCCAGATACTCGCCAGCTCCA 60

RESULT 10

US-10-635-211-3
; Sequence 3, Application US/10635211
; Publication No. US20050031649A1
; GENERAL INFORMATION:
; APPLICANT: Beijing HYDVAX Biotechnology Co. Ltd
; TITLE OF INVENTION: A recombinant fusion protein comprising BCG heat shock protein 65
; TITLE OF INVENTION: and the epitope of MUC1
; FILE REFERENCE: FP03012US
; CURRENT APPLICATION NUMBER: US/10/635,211
; CURRENT FILING DATE: 2003-08-06
; NUMBER OF SEQ ID NOS: 9
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 3
; LENGTH: 120
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (1)..(120)
US-10-635-211-3

Query Match 48.3%; Score 29; DB 8; Length 120;
Best Local Similarity 71.7%; Pred. No. 1.3;
Matches 38; Conservative 0; Mismatches 15; Indels 0; Gaps 0;

QY 7 ACCGACCGCCCGCACAGGGGTCAACAGCGCGCAGACTCGACTGCGCC 59
Db 7 ACCGCTCCGCGCGCTACAGGTGTACTCTGTCCGACACCCGTCGCTCC 59

RESULT 11

US-10-635-211-8/c
; Sequence 8, Application US/10635211
; Publication No. US20050031649A1
; GENERAL INFORMATION:
; APPLICANT: Beijing HYDVAX Biotechnology Co. Ltd
; TITLE OF INVENTION: A recombinant fusion protein comprising BCG heat shock protein 65
; TITLE OF INVENTION: and the epitope of MUC1
; FILE REFERENCE: FP03012US
; CURRENT APPLICATION NUMBER: US/10/635,211
; CURRENT FILING DATE: 2003-08-06
; NUMBER OF SEQ ID NOS: 9
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 8
; LENGTH: 162
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Primer
US-10-635-211-8

Query Match 48.3%; Score 29; DB 8; Length 162;
Best Local Similarity 71.7%; Pred. No. 1.2;
Matches 38; Conservative 0; Mismatches 15; Indels 0; Gaps 0;

QY 7 ACCGACCGCCCGCACAGGGGTCAACAGCGCGCAGACTCGACTGCGCC 59
Db 132 ACCGCTCCGCGCGCTACAGGTGTACTCTGTCCGACACCCGTCGCTCC 80

RESULT 12

US-10-425-115-18356
; Sequence 18356, Application US/10425115
; Publication No. US20040214272A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua

; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants
; FILE REFERENCE: 38-21(53222)B
; CURRENT APPLICATION NUMBER: US/10/425,115
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO 18356
; LENGTH: 362
; TYPE: DNA
; ORGANISM: Zea mays
; FEATURE:
; OTHER INFORMATION: Clone ID: MRT4577_116740C.1
US-10-425-115-18356

Query Match 46.0%; Score 27.6; DB 8; Length 362;
Best Local Similarity 72.0%; Pred. No. 3.4;
Matches 36; Conservative 0; Mismatches 14; Indels 0; Gaps 0;

QY 8 CCGCACCGCCCGCACAGGGGTCAACAGCGCGCAGACTCGACTGCGC 57
Db 228 CCACACCGCCCGCACAGGGGGCAGCACGCCCGCCCGCAGCAGCAGGG 277

RESULT 13

US-10-057-136-7
; Sequence 7, Application US/10057136
; Publication No. US20030021770A1
; GENERAL INFORMATION:
; APPLICANT: SCHLOM, JEFFREY
; APPLICANT: KANTOR, JUDITH
; APPLICANT: KUFER, DONALD
; APPLICANT: PANICALI, DENNIS
; APPLICANT: GRITZ, LINDA
; TITLE OF INVENTION: TUMOR-ASSOCIATED ANTIGEN
; TITLE OF INVENTION: TUMOR-ASSOCIATED ANTIGEN
; FILE REFERENCE: 700953/47113C
; CURRENT APPLICATION NUMBER: US/10/057,136
; CURRENT FILING DATE: 2002-01-25
; PRIOR APPLICATION NUMBER: 09/366,670
; PRIOR FILING DATE: 1999-08-03
; PRIOR APPLICATION NUMBER: PCT/US98/03693
; PRIOR FILING DATE: 1998-02-24
; PRIOR APPLICATION NUMBER: 60/038,253
; PRIOR FILING DATE: 1997-02-24
; NUMBER OF SEQ ID NOS: 20
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 7
; LENGTH: 60
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-057-136-7

Query Match 45.7%; Score 27.4; DB 5; Length 60;
Best Local Similarity 69.8%; Pred. No. 5;
Matches 37; Conservative 0; Mismatches 16; Indels 0; Gaps 0;

QY 7 ACCGACCGCCCGCACAGGGGTCAACAGCGCGCAGACTCGACTGCGCC 59
Db 7 ACCGCCCCCCTGCTACAGGTGTATCATCCGCCGATACCAACCGGCCCC 59

RESULT 14

US-10-296-734-1165
; Sequence 1165, Application US/10296734
; Publication No. US20040054137A1
; GENERAL INFORMATION:
; APPLICANT: Thompson, Scott A
; APPLICANT: Ramshaw, Ian A
; TITLE OF INVENTION: Synthetic molecules and uses therefor
; FILE REFERENCE: Savine
; CURRENT APPLICATION NUMBER: US/10/296,734
; CURRENT FILING DATE: 2003-08-04

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OM nucleic - nucleic search, using sw model

Run on: March 27, 2006, 13:48:29 ; Search time 55.5 Seconds
(without alignments)
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Title: US-10-057-136A-8
Perfect score: 60
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Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

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8: /cgn2_6/ptodata/1/ina/RE_COMB.seq:*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	27.4	45.7	60	3	US-09-475-947A-246 Sequence 246, App
2	25	41.7	477	3	US-10-152-886-56 Sequence 56, Appl
3	23.4	39.0	154	3	US-09-513-999C-26161 Sequence 26161, A
4	23	38.3	274	3	US-09-621-976-16450 Sequence 16450, A
5	23	38.3	425	3	US-08-956-171E-3693 Sequence 3693, Ap
6	23	38.3	425	3	US-08-781-986A-3693 Sequence 3693, Ap
7	22.8	38.0	355	3	US-09-370-838-135 Sequence 135, App
8	22.8	38.0	355	3	US-09-854-133-135 Sequence 135, App
9	22.4	37.3	342	3	US-09-621-976-8724 Sequence 8724, Ap
10	22.4	37.3	399	3	US-09-902-540-2937 Sequence 2937, Ap
11	22.2	37.0	81	2	US-07-744-282C-30 Sequence 30, Appl
12	22.2	37.0	81	6	PCT-US92-06821A-36 Sequence 36, Appl
13	22.2	37.0	333	3	US-09-902-540-6202 Sequence 6202, Ap
14	21.8	36.3	124	3	US-08-956-171E-4775 Sequence 4775, Ap
15	21.8	36.3	124	3	US-08-781-986A-4775 Sequence 4775, Ap
16	21.8	36.3	411	3	US-09-252-991A-6702 Sequence 6702, Ap
17	21.8	36.3	423	3	US-09-252-991A-6671 Sequence 6671, Ap
18	21.8	36.3	468	3	US-09-303-518D-781 Sequence 781, App
19	21.6	36.0	143	3	US-09-902-540-5930 Sequence 5930, Ap
20	21.6	36.0	468	3	US-09-252-991A-682 Sequence 682, App
21	21.4	35.7	120	3	US-09-902-540-3405 Sequence 3405, Ap
22	21.4	35.7	237	3	US-09-154-083-5 Sequence 5, Appl
23	21.2	35.3	169	3	US-09-270-767-2836 Sequence 2836, Ap
24	21.2	35.3	169	3	US-09-270-767-18118 Sequence 18118, A

C	25	21.2	35.3	399	3	US-09-252-991A-750	Sequence 750, App
C	26	21.2	35.3	459	3	US-09-902-540-3364	Sequence 3364, Ap
C	27	21.2	35.3	480	3	US-09-252-991A-3426	Sequence 3426, Ap
C	28	21.2	35.3	486	3	US-09-621-976-16449	Sequence 16449, A
C	29	21	35.0	407	3	US-09-621-976-2815	Sequence 2815, Ap
C	30	20.8	34.7	116	3	US-09-513-999C-36003	Sequence 36003, A
C	31	20.8	34.7	165	3	US-09-270-767-3201	Sequence 3201, Ap
C	32	20.8	34.7	165	3	US-09-270-767-18483	Sequence 18483, A
C	33	20.8	34.7	374	3	US-09-060-756-567	Sequence 567, App
C	34	20.8	34.7	374	3	US-09-670-314-567	Sequence 567, App
C	35	20.6	34.3	83	3	US-09-304-967-75	Sequence 75, Appl
C	36	20.6	34.3	254	3	US-09-621-976-1088	Sequence 1088, App
C	37	20.6	34.3	296	3	US-09-513-999C-13203	Sequence 13203, A
C	38	20.6	34.3	300	3	US-09-270-767-6616	Sequence 6616, Ap
C	39	20.6	34.3	306	3	US-09-313-294A-6993	Sequence 6993, Ap
C	40	20.6	34.3	306	3	US-09-513-999C-1808	Sequence 1808, Ap
C	41	20.6	34.3	314	3	US-09-533-559-602	Sequence 602, App
C	42	20.6	34.3	337	3	US-09-533-559-602	Sequence 602, App
C	43	20.6	34.3	354	3	US-09-252-991A-16532	Sequence 16532, A
C	44	20.6	34.3	405	3	US-09-252-991A-12918	Sequence 12918, A
C	45	20.6	34.3	477	3	US-09-621-976-10293	Sequence 10293, A

ALIGNMENTS

RESULT 1
US-09-475-947A-246
Sequence 246, Application US/09475947A
Patent No. 6472154
GENERAL INFORMATION:
APPLICANT: Garner, Harold R.
APPLICANT: Wren, Jonathan D.
APPLICANT: Minna, John D.
TITLE OF INVENTION: Polymorphic Repeats in Human Genes
FILE REFERENCE: UTSD0667
CURRENT APPLICATION NUMBER: US/09/475, 947A
CURRENT FILING DATE: 1999-12-31
NUMBER OF SEQ ID NOS: 346
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 246
LENGTH: 60
TYPE: DNA
ORGANISM: human
US-09-475-947A-246

Query Match 45.7%; Score 27.4; DB 3; Length 60;
Best Local Similarity 69.8%; Pred. No. 5.2;
Matches 37; Conservative 0; Mismatches 16; Indels 0; Gaps 0;

Qy 1 GGCAGCACCACCGCCCGCACACGGGTACAAAGCGCCGACACTGCACC 53
Db 7 GGCTCCACCGCCCCCGACCGACGCTGTCACTCGCGCCCGGACACGAGCC 59

RESULT 2
US-10-152-886-56
Sequence 56, Application US/10152886
Patent No. 6912470
GENERAL INFORMATION:
APPLICANT: ECOPIA BIOSCIENCES INC.
APPLICANT: Farnet, Chris
APPLICANT: Staffa, Alfredo
APPLICANT: Zazopoulos, Emmanuel
TITLE OF INVENTION: GENES AND PROTEINS INVOLVED IN THE BIOSYNTHESIS OF ENEDIYNE RING
FILE REFERENCE: 3011-3US
CURRENT APPLICATION NUMBER: US/10/152, 886
CURRENT FILING DATE: 2002-05-21
NUMBER OF SEQ ID NOS: 102
SOFTWARE: PatentIn version 3.0
SEQ ID NO 56
LENGTH: 477

; TYPE: DNA
; ORGANISM: Kitiatasporia sp.
US-10-152-886-56

Query Match 41.7%; Score 25; DB 3; Length 477;
Best Local Similarity 64.9%; Pred. No. 36;
Matches 37; Conservative 0; Mismatches 20; Indels 0; Gaps 0;

QY 1 GGACGACCGCACCAGCCCGCACACAGGGGTCAAGCGCCGACACTGACCTGCG 57
Db 335 GGACGACCGGGTGGCTGTCATGCGCGGCCCAACACGACACCGCCGACCGCGG 391

RESULT 3

US-09-513-999C-26161
; Sequence 26161, Application US/09513999C
; Patent No. 6783961
; GENERAL INFORMATION:
; APPLICANT: Dumas Milne Edwards, J.B.
; APPLICANT: Duclert, A.
; APPLICANT: Giordano, J.Y.
; TITLE OF INVENTION: Expressed Sequence Tags and Encoded Human Proteins.
; Patent No. 6783961
; FILE REFERENCE: 59.US2.REG
; CURRENT APPLICATION NUMBER: US/09/513,999C
; CURRENT FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: US 60/122,487
; PRIOR FILING DATE: 1999-02-26
; NUMBER OF SEQ ID NOS: 36681
; SOFTWARE: Patent.pm
; SEQ ID NO 26161
; LENGTH: 154
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-513-999C-26161

Query Match 39.0%; Score 23.4; DB 3; Length 154;
Best Local Similarity 63.2%; Pred. No. 1.1e+02;
Matches 36; Conservative 0; Mismatches 21; Indels 0; Gaps 0;

QY 1 GGACGACCGCACCAGCCCGCACACAGGGGTCAAGCGCCGACACTGACCTGCG 57
Db 80 GGACGACAGCCGAGCCCAACCCACCGGTGTACACGAACGGCAGCGCTGAGCTGTG 136

RESULT 4

US-09-621-976-16450/C
; Sequence 16450, Application US/09621976
; Patent No. 6639063
; GENERAL INFORMATION:
; APPLICANT: Dumas Milne Edwards, J.B.
; APPLICANT: Jobert, S.
; APPLICANT: Giordano, J.Y.
; TITLE OF INVENTION: ESTs and Encoded Human Proteins.
; FILE REFERENCE: GENSET.054PR2
; CURRENT APPLICATION NUMBER: US/09/621,976
; CURRENT FILING DATE: 2000-07-21
; NUMBER OF SEQ ID NOS: 19335
; SOFTWARE: Patent.pm
; SEQ ID NO 16450
; LENGTH: 274
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: 123,127
; OTHER INFORMATION: n=a, g, c or t
US-09-621-976-16450

Query Match 38.3%; Score 23; DB 3; Length 274;
Best Local Similarity 59.3%; Pred. No. 1.5e+02;
Matches 35; Conservative 1; Mismatches 23; Indels 0; Gaps 0;

QY 1 GGACGACCGCACCAGCCCGCACACAGGGGTCAAGCGCCGACACTGACCTGCGCC 59
Db 131 GGCGNWSNAGAGCGCCTTTACGGTGTCTTACGTCGCGCGGAAACACAGACCGCGCC 73

RESULT 5

US-08-956-171E-3693/C
; Sequence 3693, Application US/08956171E
; Patent No. 6593114
; GENERAL INFORMATION:
; APPLICANT: Charles Kunsch
; GIL H. Choi
; Patrick S. Dillon
; Craig A. Rosen
; Steven C. Barash
; Michael R. Fannon
; TITLE OF INVENTION: Staphylococcus aureus Polynucleotides and Sequences
; NUMBER OF SEQUENCES: 5256
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Human Genome Sciences, Inc.
; STREET: 9410 Key West Avenue
; CITY: Rockville
; STATE: Maryland
; COUNTRY: USA
; ZIP: 20850
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 3.50 inch, 1.4Mb storage
; COMPUTER: HP Vectra 486/33
; OPERATING SYSTEM: MSDOS version 6.2
; SOFTWARE: ASCII Text
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/956,171E
; FILING DATE: 20-Oct-1997
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 60/009,861
; FILING DATE: January 5, 1996
; APPLICATION NUMBER: 08/781,986
; FILING DATE: January 3, 1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Mark J. Hyman
; REGISTRATION NUMBER: 46,789
; REFERENCE/DOCKET NUMBER: PB248P1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (240) 314-1224
; TELEFAX: (301) 309-8439
; INFORMATION FOR SEQ ID NO: 3693:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 425 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: linear
; SEQUENCE DESCRIPTION: SEQ ID NO: 3693:
US-08-956-171E-3693

Query Match 38.3%; Score 23; DB 3; Length 425;
Best Local Similarity 63.6%; Pred. No. 1.6e+02;
Matches 35; Conservative 0; Mismatches 20; Indels 0; Gaps 0;

QY 6 CACCGCACCAGCCCGCACACAGGGGTCAAGCGCCGACACTGACCTGCGCCA 60
Db 382 CCCAACACACCGACCGACACAGGAATACCAAGCGCGGAAACACACACCGCCA 328

RESULT 6

US-08-781-986A-3693/C
; Sequence 3693, Application US/08781986A
; Patent No. 6737248
; GENERAL INFORMATION:
; APPLICANT: Charles Kunsch
; TITLE OF INVENTION: Staphylococcus aureus Polynucleotides and Sequences
; NUMBER OF SEQUENCES: 5255
; CORRESPONDENCE ADDRESS:

ADDRESSEE: Human Genome Sciences, Inc.
STREET: 9410 Key West Avenue
CITY: Rockville
STATE: Maryland
COUNTRY: USA
ZIP: 20850
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.50 inch, 1.4Mb storage
COMPUTER: HP Vectra 486/33
OPERATING SYSTEM: MSDOS version 6.2
SOFTWARE: ASCII Text
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/781,986A
FILING DATE:
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Benson, Bob
REGISTRATION NUMBER: 30,446
REFERENCE/DOCKET NUMBER: PB248PP
TELECOMMUNICATION INFORMATION:
TELEPHONE: (301) 309-8504
TELEFAX: (301) 309-8512
INFORMATION FOR SEQ ID NO: 3693:
SEQUENCE CHARACTERISTICS:
LENGTH: 425 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
US-08-781-986A-3693

Query Match 38.3%; Score 23; DB 3; Length 425;
Best Local Similarity 63.6%; Pred. No. 1.6e+02;
Matches 35; Conservative 0; Mismatches 20; Indels 0; Gaps 0;

OY 6 CACCGCACCGCCCGCACACGGGTCAAGCGCGCCAGACTGACCTGCGCCA 60
Db 382 CCCAACACCGCACCGACGAGTACGAGCGGCGGAAACACCAACCGCCA 328

RESULT 7
US-09-370-838-135/c
Sequence 135, Application US/09370838
Patent No. 6444425
GENERAL INFORMATION:
APPLICANT: Reed, Steven G.
APPLICANT: Lodes, Michael J.
APPLICANT: Mohamath, Radooh
APPLICANT: Secrist, Heather
TITLE OF INVENTION: COMPOUNDS FOR THERAPY AND DIAGNOSIS OF
TITLE OF INVENTION: LUNG CANCER AND METHODS FOR THEIR USE
FILE REFERENCE: 210121.475C1
CURRENT APPLICATION NUMBER: US/09/370,838
EARLIER FILING DATE: 1999-08-09
EARLIER APPLICATION NUMBER: US 09/285,323
NUMBER OF SEQ ID NOS: 289
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 135
LENGTH: 355
TYPE: DNA
ORGANISM: Homo sapien
US-09-370-838-135

Query Match 38.0%; Score 22.8; DB 3; Length 355;
Best Local Similarity 62.1%; Pred. No. 1.8e+02;
Matches 36; Conservative 0; Mismatches 22; Indels 0; Gaps 0;

OY 2 GCAGACCGCACCGCCCGCACACGGGTCAAGCGCGCCAGACTGACCTGCGCC 59
Db 121 GCAGCGCGCACGCGCCTTTACGCTGCTTCACTGCGCGCGGAACACGACCCGCGCC 64

RESULT 8
US-09-854-133-135/c
Sequence 135, Application US/09854133
Patent No. 6759508
GENERAL INFORMATION:
APPLICANT: Lodes, Michael J.
APPLICANT: Mohamath, Radooh
APPLICANT: Henderson, Robert A.
APPLICANT: Benson, Darin R.
APPLICANT: Secrist, Heather
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR
TITLE OF INVENTION: THE THERAPY AND DIAGNOSIS OF LUNG CANCER
FILE REFERENCE: 210121.475C10
CURRENT APPLICATION NUMBER: US/09/854,133
CURRENT FILING DATE: 2001-05-11
NUMBER OF SEQ ID NOS: 735
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 135
LENGTH: 355
TYPE: DNA
ORGANISM: Homo sapien
US-09-854-133-135

Query Match 38.0%; Score 22.8; DB 3; Length 355;
Best Local Similarity 62.1%; Pred. No. 1.8e+02;
Matches 36; Conservative 0; Mismatches 22; Indels 0; Gaps 0;

OY 2 GCAGACCGCACCGCCCGCACACGGGTCAAGCGCGCCAGACTGACCTGCGCC 59
Db 121 GCAGCGCGCACGCGCCTTTACGCTGCTTCACTGCGCGCGGAACACGACCCGCGCC 64

RESULT 9
US-09-621-976-8724/c
Sequence 8724, Application US/09621976
Patent No. 6639063
GENERAL INFORMATION:
APPLICANT: Dumas Milne Edwards, J.B.
APPLICANT: Jobert, S.
APPLICANT: Giordano, J.Y.
TITLE OF INVENTION: ESTs and Encoded Human Proteins.
FILE REFERENCE: GENSET.054PR2
CURRENT APPLICATION NUMBER: US/09/621,976
CURRENT FILING DATE: 2000-07-21
NUMBER OF SEQ ID NOS: 19335
SOFTWARE: Patent.pm
SEQ ID NO 8724
LENGTH: 342
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: misc_feature
LOCATION: 284
OTHER INFORMATION: n=a, g, c or t
US-09-621-976-8724

Query Match 37.3%; Score 22.4; DB 3; Length 342;
Best Local Similarity 60.3%; Pred. No. 2.4e+02;
Matches 35; Conservative 1; Mismatches 22; Indels 0; Gaps 0;

OY 1 GGACGACCGCACCGCCCGCACACGGGTCAAGCGCGCCAGACTGACCTGCGCC 58
Db 207 GGGYKCCCGCGGACCCCGCCGAGGGGGCCCGGACCCAGCACTGCTGCTGCGGC 150

RESULT 10
US-09-902-540-2937/c
Sequence 2937, Application US/09902540
Patent No. 6833447
GENERAL INFORMATION:
APPLICANT: Goldman, Barry S.

APPLICANT: Hinkle, Gregory J.
APPLICANT: Slater, Steven C.
APPLICANT: Wiegand, Roger C.
TITLE OF INVENTION: Myxococcus xanthus Genome Sequences and Uses Thereof
FILE REFERENCE: 38-10(15849)B
CURRENT APPLICATION NUMBER: US/09/902,540
CURRENT FILING DATE: 2001-07-10
PRIOR APPLICATION NUMBER: 60/217,883
PRIOR FILING DATE: 2000-07-10
NUMBER OF SEQ ID NOS: 16825
SEQ ID NO 2937
LENGTH: 399
TYPE: DNA
ORGANISM: Myxococcus xanthus
US-09-902-540-2937

Query Match 37.3%; Score 22.4; DB 3; Length 399;
Best Local Similarity 66.7%; Pred. No. 2.5e+02;
Matches 32; Conservative 0; Mismatches 16; Indels 0; Gaps 0;

QY 10 GCACCGCCCGCACCGGGGTCAACAAGCGCCGACGACTGCGCTGCG 57
DB 196 GCAGCGCCGACGAGCGCGCTGCGAGCGCCGACGAAGCCCTGCGCCGCG 149

RESULT 11
US-07-744-282C-30/c
Sequence 30, Application US/07744282C
Patent No. 5521300
GENERAL INFORMATION:
APPLICANT: Shah, Jyotsna S.
APPLICANT: Nietupski, Raymond M.
APPLICANT: Liu, Jing
TITLE OF INVENTION: Oligonucleotides Complementary to
TITLE OF INVENTION: Mycobacterial Nucleic Acids
NUMBER OF SEQUENCES: 127
CORRESPONDENCE ADDRESS:
ADDRESSEE: Kevin M. Farrell, P.C.
STREET: P.O. Box 999
CITY: York Harbor
STATE: ME
COUNTRY: USA
ZIP: 03911
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/07/744,282C
FILING DATE: August 13, 1991
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Kevin M. Farrell
REGISTRATION NUMBER: 35,505
REFERENCE/DOCKET NUMBER: GTR90-05
TELECOMMUNICATION INFORMATION:
TELEPHONE: (207) 363-0558
TELEFAX: (207) 363-0528
INFORMATION FOR SEQ ID NO: 30:
SEQUENCE CHARACTERISTICS:
LENGTH: 81 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE: RNA (genomic)
US-07-744-282C-30

Query Match 37.0%; Score 22.2; DB 2; Length 81;
Best Local Similarity 61.0%; Pred. No. 2.5e+02;
Matches 36; Conservative 0; Mismatches 23; Indels 0; Gaps 0;

QY 1 GGCAGACCGCACCGCCGACACAGGGGTCAACAAGCGCCGACGACTGCGCTGCGCC 59

DB 81 GACAGCCATGACACCTGACACATGCTACAAAGGAAGCCTCTCTTAGACGCGTC 23

RESULT 12
PCT-US92-06821A-36/c
Sequence 36, Application PC/TUS9206821A
GENERAL INFORMATION:
APPLICANT: Shah, Jyotsna S.
APPLICANT: Nietupski, Raymond M.
APPLICANT: Liu, Jing
TITLE OF INVENTION: Oligonucleotides Complementary to
TITLE OF INVENTION: Mycobacterial Nucleic Acids
NUMBER OF SEQUENCES: 133
CORRESPONDENCE ADDRESS:
ADDRESSEE: Amoco Corporation
STREET: 200 East Randolph Drive, P.O. Box 87703
CITY: Chicago
STATE: Illinois
COUNTRY: U.S.A.
ZIP: 60680
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US92/06821A
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/744,282
FILING DATE: 13-AUG-1991
ATTORNEY/AGENT INFORMATION:
NAME: Galloway, Norval B.
REGISTRATION NUMBER: 33,595
REFERENCE/DOCKET NUMBER: CN 5851
TELECOMMUNICATION INFORMATION:
TELEPHONE: 312-856-7180
TELEFAX: 312-856-4972
INFORMATION FOR SEQ ID NO: 36:
SEQUENCE CHARACTERISTICS:
LENGTH: 81 base pairs
TYPE: NUCLEIC ACID
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: RNA
PCT-US92-06821A-36

Query Match 37.0%; Score 22.2; DB 6; Length 81;
Best Local Similarity 61.0%; Pred. No. 2.5e+02;
Matches 36; Conservative 0; Mismatches 23; Indels 0; Gaps 0;

QY 1 GGCAGACCGCACCGCCGACACAGGGGTCAACAAGCGCCGACGACTGCGCTGCGCC 59
DB 81 GACAGCCATGACACCACTGACACATGCTACAAAGGAAGCCTCTCTTAGACGCGTC 23

RESULT 13
US-09-902-540-6202/c
Sequence 6202, Application US/09902540
Patent No. 6833447
GENERAL INFORMATION:
APPLICANT: Goldman, Barry S.
APPLICANT: Hinkle, Gregory J.
APPLICANT: Slater, Steven C.
APPLICANT: Wiegand, Roger C.
TITLE OF INVENTION: Myxococcus xanthus Genome Sequences and Uses Thereof
FILE REFERENCE: 38-10(15849)B
CURRENT APPLICATION NUMBER: US/09/902,540
CURRENT FILING DATE: 2001-07-10
PRIOR APPLICATION NUMBER: 60/217,883
PRIOR FILING DATE: 2000-07-10
NUMBER OF SEQ ID NOS: 16825
SEQ ID NO 6202

LENGTH: 333
TYPE: DNA
ORGANISM: Myxococcus xanthus
US-09-902-540-6202

Query Match 37.0%; Score 22.2; DB 3; Length 333;
Best Local Similarity 61.0%; Pred. No. 2.8e+02;
Matches 36; Conservative 0; Mismatches 23; Indels 0; Gaps 0;

QY 1 GGCAGACCGCAGCCCGCAGACAGCGGTCACAAGCGCCAGACACTGACCTGCGCC 59
DB 254 GTCCGAGCTCGTGCCCTCTTCGGGCGCAGCAGCAGCGCCGCGCACCGCGCGC 196

RESULT 14

US-08-956-171E-4775
Sequence 4775, Application US/08956171E
Patent No. 6593114
GENERAL INFORMATION:
APPLICANT: Charles Kunsch
Gil H. Choi
Patrick S. Dillon
Craig A. Rosen
Steven C. Barash
Michael R. Fannon
TITLE OF INVENTION: Staphylococcus aureus Polynucleotides and Sequences
NUMBER OF SEQUENCES: 5256
CORRESPONDENCE ADDRESS:
ADDRESSEE: Human Genome Sciences, Inc.
STREET: 9410 Key West Avenue
CITY: Rockville
STATE: Maryland
COUNTRY: USA
ZIP: 20850
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.50 inch, 1.4Mb storage
COMPUTER: HP Vectra 486/33
OPERATING SYSTEM: MSDOS version 6.2
SOFTWARE: ASCII Text
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/956,171E
FILING DATE: 20-Oct-1997
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 60/009,861
FILING DATE: January 5, 1996
APPLICATION NUMBER: 08/781,986
FILING DATE: January 3, 1997
ATTORNEY/AGENT INFORMATION:
NAME: Mark J. Hyman
REGISTRATION NUMBER: 46,789
REFERENCE/DOCKET NUMBER: PB248P1
TELECOMMUNICATION INFORMATION:
TELEPHONE: (240) 314-1224
TELEFAX: (301) 309-8439
INFORMATION FOR SEQ ID NO: 4775:
SEQUENCE CHARACTERISTICS:
LENGTH: 124 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
SEQUENCE DESCRIPTION: SEQ ID NO: 4775:
US-08-956-171E-4775

Query Match 36.3%; Score 21.8; DB 3; Length 124;
Best Local Similarity 64.0%; Pred. No. 3.5e+02;
Matches 32; Conservative 0; Mismatches 18; Indels 0; Gaps 0;

QY 11 CACCGCCGACACGGGTCAAGCGCCGACACTGACCTGCGCCA 60
DB 66 CACCAACGACACGAGTCCGAGTGANCCAGAACTCCAACACCGCCA 115

RESULT 15

US-08-781-986A-4775
Sequence 4775, Application US/08781986A
Patent No. 6737248
GENERAL INFORMATION:
APPLICANT: Charles Kunsch
TITLE OF INVENTION: Staphylococcus aureus Polynucleotides and Sequences
NUMBER OF SEQUENCES: 5255
CORRESPONDENCE ADDRESS:
ADDRESSEE: Human Genome Sciences, Inc.
STREET: 9410 Key West Avenue
CITY: Rockville
STATE: Maryland
COUNTRY: USA
ZIP: 20850
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.50 inch, 1.4Mb storage
COMPUTER: HP Vectra 486/33
OPERATING SYSTEM: MSDOS version 6.2
SOFTWARE: ASCII Text
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/781,986A
FILING DATE:
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Benson, Bob
REGISTRATION NUMBER: 30,446
REFERENCE/DOCKET NUMBER: PB248PP
TELECOMMUNICATION INFORMATION:
TELEPHONE: (301) 309-8504
TELEFAX: (301) 309-8512
INFORMATION FOR SEQ ID NO: 4775:
SEQUENCE CHARACTERISTICS:
LENGTH: 124 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
US-08-781-986A-4775

Query Match 36.3%; Score 21.8; DB 3; Length 124;
Best Local Similarity 64.0%; Pred. No. 3.5e+02;
Matches 32; Conservative 0; Mismatches 18; Indels 0; Gaps 0;

QY 11 CACCGCCGACACGGGTCAAGCGCCGACACTGACCTGCGCCA 60
DB 66 CACCAACGACACGAGTCCGAGTGANCCAGAACTCCAACACCGCCA 115

Search completed: March 27, 2006, 16:33:32
Job time : 56.5 secs

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OM nucleic - nucleic search, using sw model

Run on: March 27, 2006, 13:53:26 ; Search time 321.3 Seconds
(without alignments)
744.399 Million cell updates/sec

Title: US-10-057-136A-7

Perfect score: 60
Sequence: 1 GGTTGACGGCCCCCCTGC.....CGGATACGAGCGGCCCT 60

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 9258654 seqs, 1993127192 residues

Total number of hits satisfying chosen parameters: 14431810

Minimum DB seq length: 0
Maximum DB seq length: 500

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

- Database : Published Applications NA New:*
- 1: /SIDS5/ptodata/2/pubpna/US08_NEW_PUB.seq:*
 - 2: /SIDS5/ptodata/2/pubpna/US06_NEW_PUB.seq:*
 - 3: /SIDS5/ptodata/2/pubpna/US07_NEW_PUB.seq:*
 - 4: /SIDS5/ptodata/2/pubpna/PCT_NEW_PUB.seq:*
 - 5: /SIDS5/ptodata/2/pubpna/US09_NEW_PUB.seq:*
 - 6: /SIDS5/ptodata/2/pubpna/US09_NEW_PUB.seq:*
 - 7: /SIDS5/ptodata/2/pubpna/US10_NEW_PUB.seq:*
 - 8: /SIDS5/ptodata/2/pubpna/US10_NEW_PUB.seq:*
 - 9: /SIDS5/ptodata/2/pubpna/US10_NEW_PUB.seq:*
 - 10: /SIDS5/ptodata/2/pubpna/US11_NEW_PUB.seq:*
 - 11: /SIDS5/ptodata/2/pubpna/US11_NEW_PUB.seq:*
 - 12: /SIDS5/ptodata/2/pubpna/US11_NEW_PUB.seq:*
 - 13: /SIDS5/ptodata/2/pubpna/US11_NEW_PUB.seq:*
 - 14: /SIDS5/ptodata/2/pubpna/US11_NEW_PUB.seq:*
 - 15: /SIDS5/ptodata/2/pubpna/US60_NEW_PUB.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB	ID	Description
1	41	68.3	468	8	US-10-401-386B-43	Sequence 43, Appl
2	39.8	66.3	328	9	US-10-517-696-41	Sequence 41, Appl
3	23.4	39.0	201	14	US-11-124-367A-16232	Sequence 16232, A
4	23.4	39.0	201	14	US-11-124-367A-16278	Sequence 16278, A
5	23.4	39.0	201	14	US-11-124-367A-16279	Sequence 16279, A
6	23.2	38.7	457	6	US-09-925-065A-387794	Sequence 387794, A
7	23.2	38.7	464	10	US-10-301-480-456277	Sequence 456277, A
8	23.2	38.7	464	10	US-10-301-480-1069686	Sequence 1069686, A
9	21.6	36.0	494	6	US-09-925-065A-263634	Sequence 263634, A
10	21.4	35.7	380	6	US-09-925-065A-704509	Sequence 704509, A
11	21.2	35.3	201	8	US-10-995-561-11318	Sequence 11318, A
12	21.2	35.3	201	8	US-10-995-561-59225	Sequence 59225, A
13	21.2	35.3	201	8	US-10-995-561-82552	Sequence 82552, A
14	21.2	35.3	431	6	US-09-925-065A-587132	Sequence 587132, A
15	21	35.0	412	6	US-09-925-065A-503539	Sequence 503539, A
16	21	35.0	459	8	US-10-467-657-1643	Sequence 1643, Ap
17	20.8	34.7	36	8	US-10-401-386B-59	Sequence 59, Appl
18	20.8	34.7	301	6	US-09-925-065A-471600	Sequence 471600, A

19	20.8	34.7	425	6	US-09-925-065A-125442	Sequence 125442, A
20	20.8	34.7	439	6	US-09-925-065A-586084	Sequence 586084, A
21	20.8	34.7	439	6	US-09-925-065A-586085	Sequence 586085, A
22	20.8	34.7	439	6	US-09-925-065A-586086	Sequence 586086, A
23	20.8	34.7	446	6	US-09-925-065A-472121	Sequence 472121, A
24	20.8	34.7	446	6	US-09-925-065A-472122	Sequence 472122, A
25	20.8	34.7	446	6	US-09-925-065A-472123	Sequence 472123, A
26	20.6	34.3	74	11	US-11-051-720-870	Sequence 870, App
27	20.6	34.3	201	8	US-10-995-561-50120	Sequence 50120, A
28	20.6	34.3	412	6	US-09-925-065A-503540	Sequence 503540, A
29	20.4	34.0	385	9	US-10-301-480-6027	Sequence 6027, Ap
30	20.4	34.0	385	10	US-10-301-480-619436	Sequence 619436, A
31	20.4	34.0	399	6	US-09-925-065A-652630	Sequence 652630, A
32	20.4	34.0	414	9	US-10-301-480-82925	Sequence 82925, A
33	20.4	34.0	414	10	US-10-301-480-696334	Sequence 696334, A
34	20.4	34.0	439	6	US-09-925-065A-586083	Sequence 586083, A
35	20.4	34.0	491	6	US-09-925-065A-526514	Sequence 526514, A
36	20.2	33.7	462	6	US-09-925-065A-516100	Sequence 516100, A
37	20.2	33.7	462	6	US-09-925-065A-516101	Sequence 516101, A
38	20.2	33.7	462	6	US-09-925-065A-516102	Sequence 516102, A
39	20.2	33.7	462	6	US-09-925-065A-516103	Sequence 516103, A
40	20	33.3	201	8	US-10-995-561-57292	Sequence 57292, A
41	20	33.3	201	8	US-10-995-561-82472	Sequence 82472, A
42	20	33.3	201	14	US-11-124-368A-3814	Sequence 3814, Ap
43	20	33.3	201	14	US-11-124-367A-15894	Sequence 15894, A
44	20	33.3	201	14	US-11-124-367A-16196	Sequence 16196, A
45	20	33.3	387	6	US-09-925-065A-651162	Sequence 651162, A

ALIGNMENTS

RESULT 1
US-10-401-386B-43
; Sequence 43, Application US/10401386B
; Publication No. US20050261213A1
; GENERAL INFORMATION:
; APPLICANT: Patrick Branigan
; APPLICANT: Theresa J Goletz
; APPLICANT: David M Knight
; APPLICANT: Stephen G McCarthy
; APPLICANT: Bernard J Scallan
; APPLICANT: Linda A Snyder
; TITLE OF INVENTION: Nucleic Acid Compositions and Methods
; TITLE OF INVENTION: for Use
; FILE REFERENCE: CEN 310CIP
; CURRENT APPLICATION NUMBER: US/10/401,386B
; CURRENT FILING DATE: 2003-03-28
; PRIOR APPLICATION NUMBER: 10/247,203
; PRIOR FILING DATE: 2002-09-19
; PRIOR APPLICATION NUMBER: 60/328,371
; PRIOR FILING DATE: 2001-10-10
; NUMBER OF SEQ ID NOS: 81
; SOFTWARE: FastSeq for windows Version 4.0
; SEQ ID NO 43
; LENGTH: 468
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (1)...(468)
US-10-401-386B-43

Query Match 68.3%; Score 41; DB 8; Length 468;
Best Local Similarity 82.5%; Pred. No. 7.4e-05;
Matches 47; Conservative 0; Mismatches 10; Indels 0; Gaps 0;

QY 1 GGTTGACGGCCCCCTGCTACGGGTGTAACATCCGCCCGGATACGAGACCGGCC 57
Db 412 GGCTCACCGCCCCCGGACCGGCTGTCACTCGGCCCGGACACGAGCGGCC 468
RESULT 2

```
US-10-517-696-41
; Sequence 41, Application US/10517696
; Publication No. US20060051759A1
; GENERAL INFORMATION:
; APPLICANT: diadexus, Inc.
; APPLICANT: Salceda, Susana
; APPLICANT: Macina, Roberto A.
; APPLICANT: Turner, Leah R.
; APPLICANT: Sun, Yongming
; APPLICANT: Liu, Chenghua
; TITLE OF INVENTION: Compositions and Methods Relating to Breast Specific Genes and Pr
; FILE REFERENCE: DEX-0432
; CURRENT APPLICATION NUMBER: US/10/517,696
; PRIOR FILING DATE: 2004-12-13
; PRIOR APPLICATION NUMBER: US 60/389,327
; PRIOR FILING DATE: 2002-06-14
; NUMBER OF SEQ ID NOS: 171
; SOFTWARE: FastSeq for Windows Version 3.1
; SEQ ID NO 41
; LENGTH: 328
; TYPE: DNA
; ORGANISM: Homo sapien
US-10-517-696-41
```

Query Match 66.3%; Score 39.8; DB 9; Length 328;
Best Local Similarity 79.7%; Pred. No. 0.00019;
Matches 47; Conservative 0; Mismatches 12; Indels 0; Gaps 0;

```
QY 1 GGTTCGACGGCCCCCTGCTCAGCGTGTACATCCGCCCCGATACAGACCGGCCCC 59
Db 95 GGCTCCACCGCGCGCCGACGCCACCGGTGTACCTCGCCCCCGACACAGCGCGGCCCC 153
```

```
RESULT 3
US-11-124-367A-16232
; Sequence 16232, Application US/11124367A
; Publication No. US20060024700A1
; GENERAL INFORMATION:
; APPLICANT: Michele Cargill
; APPLICANT: Hongjin Huang
; TITLE OF INVENTION: Genetic Polymorphisms Associated with
; FILE REFERENCE: CL001519.ORD
; CURRENT APPLICATION NUMBER: US/11/124,367A
; PRIOR FILING DATE: 2005-05-09
; PRIOR APPLICATION NUMBER: US 60/568,846
; PRIOR FILING DATE: 2004-05-07
; PRIOR APPLICATION NUMBER: US 60/582,609
; PRIOR FILING DATE: 2004-06-25
; PRIOR APPLICATION NUMBER: US 60/599,554
; PRIOR FILING DATE: 2004-08-09
; NUMBER OF SEQ ID NOS: 34460
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 16232
; LENGTH: 201
; TYPE: DNA
; ORGANISM: Homo sapiens
US-11-124-367A-16232
```

Query Match 39.0%; Score 23.4; DB 14; Length 201;
Best Local Similarity 63.2%; Pred. No. 88;
Matches 36; Conservative 0; Mismatches 21; Indels 0; Gaps 0;

```
QY 4 TCGACGGCCCCCTGCTCAGCGTGTACATCCGCCCCGATACAGACCGGCCCCCT 60
Db 51 TCCACGCCCCCATCCGCTCCGTTGCCCCAGCGCTCCCATTGCCCCAGCYGCTCCT 107
```

```
RESULT 4
US-11-124-367A-16278
; Sequence 16278, Application US/11124367A
; Publication No. US20060024700A1
; GENERAL INFORMATION:
```

```
; APPLICANT: Michele Cargill
; APPLICANT: Hongjin Huang
; TITLE OF INVENTION: Genetic Polymorphisms Associated with
; FILE REFERENCE: CL001519.ORD
; CURRENT APPLICATION NUMBER: US/11/124,367A
; PRIOR FILING DATE: 2005-05-09
; PRIOR APPLICATION NUMBER: US 60/568,846
; PRIOR FILING DATE: 2004-05-07
; PRIOR APPLICATION NUMBER: US 60/582,609
; PRIOR FILING DATE: 2004-06-25
; PRIOR APPLICATION NUMBER: US 60/599,554
; PRIOR FILING DATE: 2004-08-09
; NUMBER OF SEQ ID NOS: 34460
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 16278
; LENGTH: 201
; TYPE: DNA
; ORGANISM: Homo sapiens
US-11-124-367A-16278
```

Query Match 39.0%; Score 23.4; DB 14; Length 201;
Best Local Similarity 63.2%; Pred. No. 88;
Matches 36; Conservative 0; Mismatches 21; Indels 0; Gaps 0;

```
QY 4 TCGACGGCCCCCTGCTCAGCGTGTACATCCGCCCCGATACAGACCGGCCCCCT 60
Db 40 TCCACGCCCCCATCCGCTCCGTTGCCCCAGCGCTCCCATTGCCCCAGCTGCTCCT 96
```

```
RESULT 5
US-11-124-367A-16279
; Sequence 16279, Application US/11124367A
; Publication No. US20060024700A1
; GENERAL INFORMATION:
; APPLICANT: Michele Cargill
; APPLICANT: Hongjin Huang
; TITLE OF INVENTION: Genetic Polymorphisms Associated with
; FILE REFERENCE: CL001519.ORD
; CURRENT APPLICATION NUMBER: US/11/124,367A
; PRIOR FILING DATE: 2005-05-09
; PRIOR APPLICATION NUMBER: US 60/568,846
; PRIOR FILING DATE: 2004-05-07
; PRIOR APPLICATION NUMBER: US 60/582,609
; PRIOR FILING DATE: 2004-06-25
; PRIOR APPLICATION NUMBER: US 60/599,554
; PRIOR FILING DATE: 2004-08-09
; NUMBER OF SEQ ID NOS: 34460
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 16279
; LENGTH: 201
; TYPE: DNA
; ORGANISM: Homo sapiens
US-11-124-367A-16279
```

Query Match 39.0%; Score 23.4; DB 14; Length 201;
Best Local Similarity 63.2%; Pred. No. 88;
Matches 36; Conservative 0; Mismatches 21; Indels 0; Gaps 0;

```
QY 4 TCGACGGCCCCCTGCTCAGCGTGTACATCCGCCCCGATACAGACCGGCCCCCT 60
Db 41 TCCACGCCCCCATCCGCTCCGTTGCCCCAGCGCTCCCATTGCCCCAGCTGCTCCT 97
```

```
RESULT 6
US-09-925-065A-387794/C
; Sequence 387794, Application US/09925065A
; Publication No. US20040181048A1
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single
; FILE REFERENCE: Nucleotide Polymorphisms in the Human Genome
```

```
; FILE REFERENCE: 108827.135
; CURRENT APPLICATION NUMBER: US/09/925,065A
; CURRENT FILING DATE: 2001-08-08
; PRIOR APPLICATION NUMBER: US 60/243,096
; PRIOR FILING DATE: 2000-10-24
; PRIOR APPLICATION NUMBER: US 60/252,147
; PRIOR FILING DATE: 2000-11-20
; PRIOR APPLICATION NUMBER: US 60/250,092
; PRIOR FILING DATE: 2000-11-30
; PRIOR APPLICATION NUMBER: US 60/261,766
; PRIOR FILING DATE: 2001-01-16
; PRIOR APPLICATION NUMBER: US 60/289,846
; PRIOR FILING DATE: 2001-05-09
; NUMBER OF SEQ ID NOS: 957086
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 387794
; LENGTH: 457
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-925-065A-387794
```

```
Query Match      38.7%; Score 23.2; DB 6; Length 457;
Best Local Similarity 70.5%; Pred. No. 1e+02;
Matches 31; Conservative 0; Mismatches 13; Indels 0; Gaps 0;
```

```
QY      7 ACGGCCCCCTGCTCAGCGGTGTACATCCGCGCGGATACCAG 50
      ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db      394 AGGGGAGAACTGCCACAGTATAGCATTCACCCCTCATACCAG 351
```

```
RESULT 7
US-10-301-480-456277/c
; Sequence 456277, Application US/10301480
; Publication No. US20060057564A1
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single Nucleotide Polymorphisms
; TITLE OF INVENTION: in the Human Genome
; FILE REFERENCE: 108827.137
; CURRENT APPLICATION NUMBER: US/10/301,480
; CURRENT FILING DATE: 2002-11-21
; PRIOR APPLICATION NUMBER: US 10/215,598
; PRIOR FILING DATE: 2002-08-09
; PRIOR APPLICATION NUMBER: US 60/311,695
; PRIOR FILING DATE: 2001-08-10
; NUMBER OF SEQ ID NOS: 1226818
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 456277
; LENGTH: 464
; TYPE: DNA
; ORGANISM: Homo sapien
US-10-301-480-456277
```

```
Query Match      38.7%; Score 23.2; DB 10; Length 464;
Best Local Similarity 70.5%; Pred. No. 1e+02;
Matches 31; Conservative 0; Mismatches 13; Indels 0; Gaps 0;
```

```
QY      7 ACGGCCCCCTGCTCAGCGGTGTACATCCGCGCGGATACCAG 50
      ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db      401 AGGGGAGAACTGCCACAGTATAGCATTCACCCCTCATACCAG 358
```

```
RESULT 8
US-10-301-480-1069686/c
; Sequence 1069686, Application US/10301480
; Publication No. US20060057564A1
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single Nucleotide Polymorphisms
; TITLE OF INVENTION: in the Human Genome
; FILE REFERENCE: 108827.137
; CURRENT APPLICATION NUMBER: US/10/301,480
; CURRENT FILING DATE: 2002-11-21
```

```
; PRIOR APPLICATION NUMBER: US 10/215,598
; PRIOR FILING DATE: 2002-08-09
; PRIOR APPLICATION NUMBER: US 60/311,695
; PRIOR FILING DATE: 2001-08-10
; NUMBER OF SEQ ID NOS: 1226818
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1069686
; LENGTH: 464
; TYPE: DNA
; ORGANISM: Homo sapien
US-10-301-480-1069686
```

```
Query Match      38.7%; Score 23.2; DB 10; Length 464;
Best Local Similarity 70.5%; Pred. No. 1e+02;
Matches 31; Conservative 0; Mismatches 13; Indels 0; Gaps 0;
```

```
QY      7 ACGGCCCCCTGCTCAGCGGTGTACATCCGCGCGGATACCAG 50
      ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db      401 AGGGGAGAACTGCCACAGTATAGCATTCACCCCTCATACCAG 358
```

```
RESULT 9
US-09-925-065A-263634
; Sequence 263634, Application US/09925065A
; Publication No. US20040181048A1
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single
; TITLE OF INVENTION: Nucleotide Polymorphisms in the Human Genome
; FILE REFERENCE: 108827.135
; CURRENT APPLICATION NUMBER: US/09/925,065A
; CURRENT FILING DATE: 2001-08-08
; PRIOR APPLICATION NUMBER: US 60/243,096
; PRIOR FILING DATE: 2000-10-24
; PRIOR APPLICATION NUMBER: US 60/252,147
; PRIOR FILING DATE: 2000-11-20
; PRIOR APPLICATION NUMBER: US 60/250,092
; PRIOR FILING DATE: 2000-11-30
; PRIOR APPLICATION NUMBER: US 60/261,766
; PRIOR FILING DATE: 2001-01-16
; PRIOR APPLICATION NUMBER: US 60/289,846
; PRIOR FILING DATE: 2001-05-09
; NUMBER OF SEQ ID NOS: 957086
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 263634
; LENGTH: 494
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-925-065A-263634
```

```
Query Match      36.0%; Score 21.6; DB 6; Length 494;
Best Local Similarity 60.0%; Pred. No. 3.5e+02;
Matches 36; Conservative 0; Mismatches 24; Indels 0; Gaps 0;
```

```
QY      1 GGTTCAGCGGCCCCCTGCTCAGCGGTGTACATCCGCGGATACCAGACCGGCCCT 60
      ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db      183 GGTGCTCTGCGCCAGGTGCCAGACCTCAGAACCACTTGACACGACCTTCCCT 242
```

```
RESULT 10
US-09-925-065A-704509
; Sequence 704509, Application US/09925065A
; Publication No. US20040181048A1
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single
; TITLE OF INVENTION: Nucleotide Polymorphisms in the Human Genome
; FILE REFERENCE: 108827.135
; CURRENT APPLICATION NUMBER: US/09/925,065A
; CURRENT FILING DATE: 2001-08-08
; PRIOR APPLICATION NUMBER: US 60/243,096
; PRIOR FILING DATE: 2000-10-24
; PRIOR APPLICATION NUMBER: US 60/252,147
```

```
; PRIOR FILING DATE: 2000-11-20
; PRIOR APPLICATION NUMBER: US 60/250,092
; PRIOR FILING DATE: 2000-11-30
; PRIOR APPLICATION NUMBER: US 60/261,766
; PRIOR FILING DATE: 2001-01-16
; PRIOR APPLICATION NUMBER: US 60/289,846
; PRIOR FILING DATE: 2001-05-09
; NUMBER OF SEQ ID NOS: 957086
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 704509
; LENGTH: 380
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-925-065A-704509
```

```
Query Match          35.3%; Score 21.2; DB 6; Length 380;
Best Local Similarity 71.8%; Pred. No. 4.2e+02;
Matches 28; Conservative 0; Mismatches 11; Indels 0; Gaps 0;
```

```
QY      11 CCCCCCTGCTCAGGTGTACATCCGCCCGGATACCA 49
          ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db      10 CCCCCCTCTCTCTCTATACATCTTCCCGAGTGAACA 48
```

RESULT 11

```
US-10-995-561-11318
; Sequence 11318, Application US/10995561
; Publication No. US20050272054A1
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele et al.
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; TITLE OF INVENTION: CARDIOVASCULAR DISORDERS AND DRUG RESPONSE, METHODS OF
; TITLE OF INVENTION: DETECTION AND USES THEREOF
; FILE REFERENCE: CL001559
; CURRENT APPLICATION NUMBER: US/10/995,561
; CURRENT FILING DATE: 2004-11-24
; NUMBER OF SEQ ID NOS: 85702
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 11318
; LENGTH: 201
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-995-561-11318
```

```
Query Match          35.3%; Score 21.2; DB 8; Length 201;
Best Local Similarity 60.3%; Pred. No. 5e+02;
Matches 35; Conservative 0; Mismatches 23; Indels 0; Gaps 0;
```

```
QY      2 GTTCAGCGGCCCCCTGCTCAGGTGTACATCCGCCCGGATACGACGCGGCC 59
          ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db      9 GCTCTCCGCTCTCTCTGCGGGGTCTGAACAACGCGGGAGTAGAGCGGCTC 66
```

RESULT 12

```
US-10-995-561-59225
; Sequence 59225, Application US/10995561
; Publication No. US20050272054A1
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele et al.
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; TITLE OF INVENTION: CARDIOVASCULAR DISORDERS AND DRUG RESPONSE, METHODS OF
; TITLE OF INVENTION: DETECTION AND USES THEREOF
; FILE REFERENCE: CL001559
; CURRENT APPLICATION NUMBER: US/10/995,561
; CURRENT FILING DATE: 2004-11-24
; NUMBER OF SEQ ID NOS: 85702
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 59225
; LENGTH: 201
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-995-561-59225
```

```
Query Match          35.3%; Score 21.2; DB 8; Length 201;
Best Local Similarity 60.3%; Pred. No. 5e+02;
Matches 35; Conservative 0; Mismatches 23; Indels 0; Gaps 0;
```

```
QY      2 GTTCAGCGGCCCCCTGCTCAGGTGTACATCCGCCCGGATACGACGCGGCC 59
          ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db      9 GCTCTCCGCTCTCTCTGCGGGGTCTGAACAACGCGGGAGTAGAGCGGCTC 66
```

RESULT 13

```
US-10-995-561-82552/c
; Sequence 82552, Application US/10995561
; Publication No. US20050272054A1
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele et al.
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; TITLE OF INVENTION: CARDIOVASCULAR DISORDERS AND DRUG RESPONSE, METHODS OF
; TITLE OF INVENTION: DETECTION AND USES THEREOF
; FILE REFERENCE: CL001559
; CURRENT APPLICATION NUMBER: US/10/995,561
; CURRENT FILING DATE: 2004-11-24
; NUMBER OF SEQ ID NOS: 85702
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 82552
; LENGTH: 201
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-995-561-82552
```

```
Query Match          35.3%; Score 21.2; DB 8; Length 201;
Best Local Similarity 61.5%; Pred. No. 5e+02;
Matches 32; Conservative 1; Mismatches 19; Indels 0; Gaps 0;
```

```
QY      9 GGGCCCCCTGCTCAGGTGTACATCCGCCCGGATACGACGCGGCCCT 60
          ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db      151 GGCTTAGCCACTCAAGCTGCCCATCAGCCCTAGATGCTTGACGACTCT 100
```

RESULT 14

```
US-09-925-065A-587132/c
; Sequence 587132, Application US/09925065A
; Publication No. US20040181048A1
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single
; TITLE OF INVENTION: Nucleotide Polymorphisms in the Human Genome
; FILE REFERENCE: 108827.135
; CURRENT APPLICATION NUMBER: US/09/925,065A
; CURRENT FILING DATE: 2001-08-08
; PRIOR APPLICATION NUMBER: US 60/243,096
; PRIOR FILING DATE: 2000-10-24
; PRIOR APPLICATION NUMBER: US 60/252,147
; PRIOR FILING DATE: 2000-11-20
; PRIOR APPLICATION NUMBER: US 60/250,092
; PRIOR FILING DATE: 2000-11-30
; PRIOR APPLICATION NUMBER: US 60/261,766
; PRIOR FILING DATE: 2001-01-16
; PRIOR APPLICATION NUMBER: US 60/289,846
; PRIOR FILING DATE: 2001-05-09
; NUMBER OF SEQ ID NOS: 957086
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 587132
; LENGTH: 431
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-925-065A-587132
```

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Query Match          35.3%; Score 21.2; DB 6; Length 431;
Best Local Similarity 60.3%; Pred. No. 4.9e+02;
Matches 35; Conservative 0; Mismatches 23; Indels 0; Gaps 0;
```

```
QY      2 GTTCAGCGGCCCCCTGCTCAGGTGTACATCCGCCCGGATACGACGCGGCC 59
          ||||| ||||| ||||| ||||| ||||| ||||| |||||
```


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GenCore version 5.1.7
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OM nucleic - nucleic search, using sw model

Run on: March 27, 2006, 13:49:57 ; Search time 371.4 Seconds
(without alignments)
1335.925 Million cell updates/sec

Title: US-10-057-136A-7

Perfect score: 60
Sequence: 1 GGTTGACGCGCCCCCTGC.....CGGATACGAGCGGCCCT 60

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 9793542 seqs, 4134689005 residues

Total number of hits satisfying chosen parameters: 14089978

Minimum DB seq length: 0
Maximum DB seq length: 500

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published Applications NA Main:
1: /cgn2_6/ptodata/1/pubpna/US07_PUBCOMB.seq:*
2: /cgn2_6/ptodata/1/pubpna/US08_PUBCOMB.seq:*
3: /cgn2_6/ptodata/1/pubpna/US09A_PUBCOMB.seq:*
4: /cgn2_6/ptodata/1/pubpna/US09B_PUBCOMB.seq:*
5: /cgn2_6/ptodata/1/pubpna/US10A_PUBCOMB.seq:*
6: /cgn2_6/ptodata/1/pubpna/US10B_PUBCOMB.seq:*
7: /cgn2_6/ptodata/1/pubpna/US10C_PUBCOMB.seq:*
8: /cgn2_6/ptodata/1/pubpna/US10D_PUBCOMB.seq:*
9: /cgn2_6/ptodata/1/pubpna/US10E_PUBCOMB.seq:*
10: /cgn2_6/ptodata/1/pubpna/US11_PUBCOMB.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB	ID	Description
1	60	100.0	60	5	US-10-057-136-7	Sequence 7, Appli
2	43	71.7	60	5	US-10-057-136-2	Sequence 2, Appli
3	39.8	66.3	78	5	US-10-057-136-13	Sequence 13, Appli
4	38.2	63.7	120	8	US-10-635-211-3	Sequence 3, Appli
5	38.2	63.7	162	8	US-10-635-211-8	Sequence 8, Appli
6	37.2	62.0	164	3	US-09-864-864-258	Sequence 258, App
7	36.2	60.3	60	5	US-10-057-136-14	Sequence 14, Appli
8	35	58.3	60	5	US-10-057-136-10	Sequence 10, Appli
9	33.4	55.7	60	5	US-10-057-136-11	Sequence 11, Appli
10	33.2	55.3	60	5	US-10-057-136-4	Sequence 4, Appli
11	32.8	54.7	60	5	US-10-057-136-12	Sequence 12, Appli
12	30.2	50.3	60	5	US-10-057-136-5	Sequence 5, Appli
13	30.2	50.3	60	5	US-10-057-136-6	Sequence 6, Appli
14	29	48.3	60	5	US-10-057-136-9	Sequence 9, Appli
15	28.6	47.7	93	7	US-10-471-607-4	Sequence 4, Appli
16	28.6	47.7	157	7	US-10-471-607-6	Sequence 6, Appli
17	27.6	46.0	72	7	US-10-296-734-1165	Sequence 1165, Ap
18	27.4	45.7	60	5	US-10-057-136-8	Sequence 8, Appli
19	25.4	42.3	157	7	US-10-471-607-9	Sequence 9, Appli
20	25	41.7	364	3	US-09-918-995-29996	Sequence 29996, A
21	25	41.7	440	3	US-09-918-995-32971	Sequence 32971, A
22	24.4	40.7	60	3	US-09-908-975-10883	Sequence 10883, A
23	23.8	39.7	156	7	US-10-471-607-5	Sequence 5, Appli

24	23.8	39.7	262	3	US-09-764-853-282	Sequence 282, App
25	23.6	39.3	462	3	US-09-861-101-4	Sequence 4, Appli
26	23.4	39.0	93	7	US-10-471-607-3	Sequence 3, Appli
27	23.4	39.0	280	8	US-10-425-115-79056	Sequence 79056, A
28	23.4	39.0	435	7	US-10-425-114-997	Sequence 997, App
29	23.4	39.0	449	7	US-10-424-599-20073	Sequence 20073, A
30	23.4	39.0	456	7	US-10-260-238-5665	Sequence 5665, Ap
31	23.4	39.0	477	8	US-10-425-115-41297	Sequence 41297, A
32	23.4	39.0	500	6	US-10-029-386-7275	Sequence 7275, Ap
33	23.2	38.7	324	7	US-10-282-122A-13296	Sequence 13296, A
34	23.2	38.7	419	8	US-10-425-115-144499	Sequence 144499, A
35	23.2	38.7	457	4	US-09-925-065A-387794	Sequence 387794, A
36	23.2	38.7	470	8	US-10-425-115-74354	Sequence 74354, A
37	22.8	38.0	351	7	US-10-437-963-87599	Sequence 87599, A
38	22.8	38.0	462	3	US-09-918-995-831	Sequence 831, App
39	22.6	37.7	103	7	US-10-437-963-62288	Sequence 62288, A
40	22.6	37.7	207	7	US-10-437-963-8759	Sequence 8759, Ap
41	22.6	37.7	328	7	US-10-437-963-38053	Sequence 38053, A
42	22.6	37.7	402	7	US-10-437-963-53564	Sequence 53564, A
43	22.6	37.7	456	8	US-10-425-115-149340	Sequence 149340, A
44	22.4	37.3	161	6	US-10-029-386-19586	Sequence 19586, A
45	22.4	37.3	341	8	US-10-425-115-66435	Sequence 66435, A

ALIGNMENTS

RESULT 1
US-10-057-136-7
; Sequence 7, Application US/10057136
; Publication No. US20030021770A1
; GENERAL INFORMATION:
; APPLICANT: SCHLOM, JEFFREY
; APPLICANT: KANTOR, JUDITH
; APPLICANT: KUFE, DONALD
; APPLICANT: PANICALI, DENNIS
; APPLICANT: GRITZ, LINDA
; TITLE OF INVENTION: RECOMBINANT POX VIRUS FOR IMMUNIZATION AGAINST MUC1
; FILE REFERENCE: 700953/47113C
; CURRENT APPLICATION NUMBER: US/10/057, 136
; CURRENT FILING DATE: 2002-01-25
; PRIOR APPLICATION NUMBER: 09/366, 670
; PRIOR FILING DATE: 1999-08-03
; PRIOR APPLICATION NUMBER: PCT/US98/03693
; PRIOR FILING DATE: 1998-02-24
; PRIOR APPLICATION NUMBER: 60/038, 253
; PRIOR FILING DATE: 1997-02-24
; NUMBER OF SEQ ID NOS: 20
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 7
; LENGTH: 60
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-057-136-7

Query Match 100.0%; Score 60; DB 5; Length 60;
Best local Similarity 100.0%; Pred. No. 1.9e-12;
Matches 60; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GGTTGACGCGCCCCCTGCTCAGGTGTATCCGCGGATACGAGACGGCCCT 60
Db 1 GGTTGACGCGCCCCCTGCTCAGGTGTATCCGCGGATACGAGACGGCCCT 60

RESULT 2
US-10-057-136-2
; Sequence 2, Application US/10057136
; Publication No. US20030021770A1
; GENERAL INFORMATION:
; APPLICANT: SCHLOM, JEFFREY
; APPLICANT: KANTOR, JUDITH
; APPLICANT: KUFE, DONALD

```
; APPLICANT: PANICALI, DENNIS
; TITLE OF INVENTION: RECOMBINANT POX VIRUS FOR IMMUNIZATION AGAINST MUC1
; FILE REFERENCE: 700953/47113C
; CURRENT FILING DATE: 2002-01-25
; PRIOR APPLICATION NUMBER: US/10/057,136
; PRIOR FILING DATE: 1999-08-03
; PRIOR APPLICATION NUMBER: PCT/US98/03693
; PRIOR FILING DATE: 1998-02-24
; PRIOR APPLICATION NUMBER: 60/038,253
; PRIOR FILING DATE: 1997-02-24
; NUMBER OF SEQ ID NOS: 20
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2
; LENGTH: 60
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-057-136-2

Query Match      71.7%; Score 43; DB 5; Length 60;
Best Local Similarity 83.1%; Pred. No. 3.7e-06;
Matches 49; Conservative 0; Mismatches 10; Indels 0; Gaps 0;

QY      1 GGTTCGACGGCCCCCTGCTCAGCGGTGTAACATCCGCGGATACCAAGACCGGCCCC 59
Db      1 GGCTCCACCGCCCCCGCCAGCCCGGTGTCACTCGGCCCCCGACACCAAGCGGCCCC 59

RESULT 3
US-10-057-136-13
; Sequence 13, Application US/10057136
; Publication No. US20030021770A1
; GENERAL INFORMATION:
; APPLICANT: SCHLOM, JEFFREY
; APPLICANT: KANTOR, JUDITH
; APPLICANT: KUPE, DONALD
; APPLICANT: PANICALI, DENNIS
; APPLICANT: GRITZ, LINDA
; TITLE OF INVENTION: RECOMBINANT POX VIRUS FOR IMMUNIZATION AGAINST MUC1
; FILE REFERENCE: 700953/47113C
; CURRENT APPLICATION NUMBER: US/10/057,136
; CURRENT FILING DATE: 2002-01-25
; PRIOR APPLICATION NUMBER: 09/366,670
; PRIOR FILING DATE: 1999-08-03
; PRIOR APPLICATION NUMBER: PCT/US98/03693
; PRIOR FILING DATE: 1998-02-24
; PRIOR APPLICATION NUMBER: 60/038,253
; PRIOR FILING DATE: 1997-02-24
; NUMBER OF SEQ ID NOS: 20
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 13
; LENGTH: 78
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-057-136-13

Query Match      66.3%; Score 39.8; DB 5; Length 78;
Best Local Similarity 79.7%; Pred. No. 5.5e-05;
Matches 47; Conservative 0; Mismatches 12; Indels 0; Gaps 0;

QY      1 GGTTCGACGGCCCCCTGCTCAGCGGTGTAACATCCGCGGATACCAAGACCGGCCCC 59
Db      1 GGCTCCACCGCACCCCGCCAGCCCGGTGTCACTCGGCCCCCGACACCAAGCGGCCCC 59

RESULT 4
US-10-635-211-3
; Sequence 3, Application US/10635211
; Publication No. US20050031649A1
; GENERAL INFORMATION:
```

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; APPLICANT: Beijing HYDVAX Biotechnology Co. Ltd
; TITLE OF INVENTION: A recombinant fusion protein comprising BCG heat shock protein 65
; FILE REFERENCE: FP03012US
; CURRENT APPLICATION NUMBER: US/10/635,211
; CURRENT FILING DATE: 2003-08-06
; NUMBER OF SEQ ID NOS: 9
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 3
; LENGTH: 120
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (1)..(120)
US-10-635-211-3

Query Match      63.7%; Score 38.2; DB 8; Length 120;
Best Local Similarity 78.0%; Pred. No. 0.00021;
Matches 46; Conservative 0; Mismatches 13; Indels 0; Gaps 0;

QY      1 GGTTCGACGGCCCCCTGCTCAGCGGTGTAACATCCGCGGATACCAAGACCGGCCCC 59
Db      1 GGTTCACCGCTCCGCGGCTCAGCGGTGTACTCTGTCTCGGACACCCGTCGGCTCC 59

RESULT 5
US-10-635-211-8/c
; Sequence 8, Application US/10635211
; Publication No. US20050031649A1
; GENERAL INFORMATION:
; APPLICANT: Beijing HYDVAX Biotechnology Co. Ltd
; TITLE OF INVENTION: A recombinant fusion protein comprising BCG heat shock protein 65
; FILE REFERENCE: FP03012US
; CURRENT APPLICATION NUMBER: US/10/635,211
; CURRENT FILING DATE: 2003-08-06
; NUMBER OF SEQ ID NOS: 9
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 8
; LENGTH: 162
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Primer
US-10-635-211-8

Query Match      63.7%; Score 38.2; DB 8; Length 162;
Best Local Similarity 78.0%; Pred. No. 0.00021;
Matches 46; Conservative 0; Mismatches 13; Indels 0; Gaps 0;

QY      1 GGTTCGACGGCCCCCTGCTCAGCGGTGTAACATCCGCGGATACCAAGACCGGCCCC 59
Db      138 GGTTCACCGCTCCGCGGCTCAGCGGTGTACTCTGTCTCGGACACCCGTCGGCTCC 80

RESULT 6
US-09-864-864-258
; Sequence 258, Application US/09864864
; Patent No. US20020102679A1
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Mitcham, Jennifer L.
; APPLICANT: Harlocker, Susan L.
; APPLICANT: Dillon, Davin C.
; APPLICANT: Secrist, Heather
; APPLICANT: Lodes, Michael J.
; APPLICANT: Algate, Paul A.
; APPLICANT: Fling, Steve P.
; APPLICANT: Mannion, Jane
; APPLICANT: Benson, Darin R.
; APPLICANT: Carter, Darick
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
```

```
; TITLE OF INVENTION: AND DIAGNOSIS OF OVARIAN CANCER
; FILE REFERENCE: 210121.523
; CURRENT APPLICATION NUMBER: US/09/864,864
; CURRENT FILING DATE: 2001-05-23
; NUMBER OF SEQ ID NOS: 341
; SOFTWARE: Corixa Invention Disclosure Database
; SEQ ID NO 258
; LENGTH: 164
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (1)..(164)
; OTHER INFORMATION: n = A,T,C or G
US-09-864-864-258
```

```
Query Match          62.0%; Score 37.2; DB 3; Length 164;
Best Local Similarity 76.3%; Pred. No. 0.00049;
Matches 45; Conservative 0; Mismatches 14; Indels 0; Gaps 0;
```

```
OY      1 GGTTCGACGGCCCCCTGCTCAGGTGTATACATCCGCCCCGATACGACGCGGCC 59
          |||||
Db      42 GGCTCCACCGCCCCCGACGCCACGGTGTACCTCGGCCCGGACANCAAGCGGCC 100
```

RESULT 7

```
US-10-057-136-14
; Sequence 14, Application US/10057136
; Publication No. US20030021770A1
; GENERAL INFORMATION:
```

```
; APPLICANT: SCHLOM, JEFFREY
; APPLICANT: KANTOR, JUDITH
; APPLICANT: KUFE, DONALD
; APPLICANT: PANICALI, DENNIS
; APPLICANT: GRITZ, LINDA
; TITLE OF INVENTION: RECOMBINANT POX VIRUS FOR IMMUNIZATION AGAINST MUC1
; FILE REFERENCE: 700953/47113C
; CURRENT APPLICATION NUMBER: US/10/057,136
; CURRENT FILING DATE: 2002-01-25
; PRIOR APPLICATION NUMBER: 09/366,670
; PRIOR FILING DATE: 1999-08-03
; PRIOR APPLICATION NUMBER: PCT/US98/03693
; PRIOR FILING DATE: 1998-02-24
; PRIOR APPLICATION NUMBER: 60/038,253
; PRIOR FILING DATE: 1997-02-24
; NUMBER OF SEQ ID NOS: 20
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 14
; LENGTH: 60
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-057-136-14
```

```
Query Match          60.3%; Score 36.2; DB 5; Length 60;
Best Local Similarity 77.2%; Pred. No. 0.0012;
Matches 44; Conservative 0; Mismatches 13; Indels 0; Gaps 0;
```

```
OY      1 GGTTCGACGGCCCCCTGCTCAGGTGTATACATCCGCCCCGATACGACGCGGCC 57
          |||||
Db      1  GGCTCCACCGCCCCCGACGCCACGTGTACCTCGGCCCGGACACAGGCGGCC 57
```

RESULT 8

```
US-10-057-136-10
; Sequence 10, Application US/10057136
; Publication No. US20030021770A1
; GENERAL INFORMATION:
```

```
; APPLICANT: SCHLOM, JEFFREY
; APPLICANT: KANTOR, JUDITH
; APPLICANT: KUFE, DONALD
; APPLICANT: PANICALI, DENNIS
; APPLICANT: GRITZ, LINDA
```

```
; TITLE OF INVENTION: RECOMBINANT POX VIRUS FOR IMMUNIZATION AGAINST MUC1
; FILE REFERENCE: 700953/47113C
; CURRENT APPLICATION NUMBER: US/10/057,136
; CURRENT FILING DATE: 2002-01-25
; PRIOR APPLICATION NUMBER: 09/366,670
; PRIOR FILING DATE: 1999-08-03
; PRIOR APPLICATION NUMBER: PCT/US98/03693
; PRIOR FILING DATE: 1998-02-24
; PRIOR APPLICATION NUMBER: 60/038,253
; PRIOR FILING DATE: 1997-02-24
; NUMBER OF SEQ ID NOS: 20
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 10
; LENGTH: 60
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-057-136-10
```

```
Query Match          58.3%; Score 35; DB 5; Length 60;
Best Local Similarity 74.6%; Pred. No. 0.0033;
Matches 44; Conservative 0; Mismatches 15; Indels 0; Gaps 0;
```

```
OY      1 GGTTCGACGGCCCCCTGCTCAGGTGTATACATCCGCCCCGATACGACGCGGCC 59
          |||||
Db      1  GGCTCAGCTGCCCTCCGCGCATGTGTGACCTCCTGACACAAGCGCACGCC 59
```

RESULT 9

```
US-10-057-136-11
; Sequence 11, Application US/10057136
; Publication No. US20030021770A1
; GENERAL INFORMATION:
```

```
; APPLICANT: SCHLOM, JEFFREY
; APPLICANT: KANTOR, JUDITH
; APPLICANT: KUFE, DONALD
; APPLICANT: PANICALI, DENNIS
; APPLICANT: GRITZ, LINDA
; TITLE OF INVENTION: RECOMBINANT POX VIRUS FOR IMMUNIZATION AGAINST MUC1
; FILE REFERENCE: 700953/47113C
; CURRENT APPLICATION NUMBER: US/10/057,136
; CURRENT FILING DATE: 2002-01-25
; PRIOR APPLICATION NUMBER: 09/366,670
; PRIOR FILING DATE: 1999-08-03
; PRIOR APPLICATION NUMBER: PCT/US98/03693
; PRIOR FILING DATE: 1998-02-24
; PRIOR APPLICATION NUMBER: 60/038,253
; PRIOR FILING DATE: 1997-02-24
; NUMBER OF SEQ ID NOS: 20
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 11
; LENGTH: 60
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-057-136-11
```

```
Query Match          55.7%; Score 33.4; DB 5; Length 60;
Best Local Similarity 72.9%; Pred. No. 0.013;
Matches 43; Conservative 0; Mismatches 16; Indels 0; Gaps 0;
```

```
OY      1 GGTTCGACGGCCCCCTGCTCAGGTGTATACATCCGCCCCGATACGACGCGGCC 59
          |||||
Db      1  GGTTCAACGGCACCTCCAGCACAGGAGTCACTGTGACCCGACACCCGTCACGCTCC 59
```

RESULT 10

```
US-10-057-136-4
; Sequence 4, Application US/10057136
; Publication No. US20030021770A1
; GENERAL INFORMATION:
```

```
; APPLICANT: SCHLOM, JEFFREY
; APPLICANT: KANTOR, JUDITH
```

```
; APPLICANT: KUFU, DONALD
; APPLICANT: PANICALI, DENNIS
; APPLICANT: GRITZ, LINDA
; TITLE OF INVENTION: RECOMBINANT FOX VIRUS FOR IMMUNIZATION AGAINST MUC1
; FILE REFERENCE: 700953/47113C
; CURRENT APPLICATION NUMBER: US/10/057,136
; CURRENT FILING DATE: 2002-01-25
; PRIOR APPLICATION NUMBER: 09/366,670
; PRIOR FILING DATE: 1999-08-03
; PRIOR APPLICATION NUMBER: PCT/US98/03693
; PRIOR FILING DATE: 1998-02-24
; PRIOR APPLICATION NUMBER: 60/038,253
; PRIOR FILING DATE: 1997-02-24
; NUMBER OF SEQ ID NOS: 20
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 4
; LENGTH: 60
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-057-136-4
```

```
Query Match      55.3%; Score 33.2; DB 5; Length 60;
Best Local Similarity 75.9%; Pred. No. 0.015;
Matches 41; Conservative 0; Mismatches 13; Indels 0; Gaps 0;
```

```
QY 7 AGCGCCCCCTGCTCAGGTGTACATCCGCCGATACAGACGGCCCT 60
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
DB 7 ACTGCACACCGGCACATGCGTATACATCAGCCTGATACAGACCTGCACCT 60
```

```
RESULT 11
US-10-057-136-12
; Sequence 12, Application US/10057136
; Publication No. US20030021770A1
; GENERAL INFORMATION:
```

```
; APPLICANT: SCHLOM, JEFFREY
; APPLICANT: KANTOR, JUDITH
; APPLICANT: KUFU, DONALD
; APPLICANT: PANICALI, DENNIS
; APPLICANT: GRITZ, LINDA
; TITLE OF INVENTION: RECOMBINANT FOX VIRUS FOR IMMUNIZATION AGAINST MUC1
; FILE REFERENCE: 700953/47113C
; CURRENT APPLICATION NUMBER: US/10/057,136
; CURRENT FILING DATE: 2002-01-25
; PRIOR APPLICATION NUMBER: 09/366,670
; PRIOR FILING DATE: 1999-08-03
; PRIOR APPLICATION NUMBER: PCT/US98/03693
; PRIOR FILING DATE: 1998-02-24
; PRIOR APPLICATION NUMBER: 60/038,253
; PRIOR FILING DATE: 1997-02-24
; NUMBER OF SEQ ID NOS: 20
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 12
; LENGTH: 60
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-057-136-12
```

```
Query Match      54.7%; Score 32.8; DB 5; Length 60;
Best Local Similarity 71.7%; Pred. No. 0.022;
Matches 43; Conservative 0; Mismatches 17; Indels 0; Gaps 0;
```

```
QY 1 GGTTCAGCGCCCCCTGCTCAGGTGTACATCCGCCGATACAGACGGCCCT 60
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
DB 1 GGTAGTACAGCGCCACCGACATGGCGTACAGAGCGCTCCGATACAGAGACCGCGCT 60
```

```
RESULT 12
US-10-057-136-5
; Sequence 5, Application US/10057136
; Publication No. US20030021770A1
```

```
; GENERAL INFORMATION:
; APPLICANT: SCHLOM, JEFFREY
; APPLICANT: KANTOR, JUDITH
; APPLICANT: KUFU, DONALD
; APPLICANT: PANICALI, DENNIS
; APPLICANT: GRITZ, LINDA
; TITLE OF INVENTION: RECOMBINANT FOX VIRUS FOR IMMUNIZATION AGAINST MUC1
; FILE REFERENCE: 700953/47113C
; CURRENT APPLICATION NUMBER: US/10/057,136
; CURRENT FILING DATE: 2002-01-25
; PRIOR APPLICATION NUMBER: 09/366,670
; PRIOR FILING DATE: 1999-08-03
; PRIOR APPLICATION NUMBER: PCT/US98/03693
; PRIOR FILING DATE: 1998-02-24
; PRIOR APPLICATION NUMBER: 60/038,253
; PRIOR FILING DATE: 1997-02-24
; NUMBER OF SEQ ID NOS: 20
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 5
; LENGTH: 60
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-057-136-5
```

```
Query Match      50.3%; Score 30.2; DB 5; Length 60;
Best Local Similarity 69.5%; Pred. No. 0.2;
Matches 41; Conservative 0; Mismatches 18; Indels 0; Gaps 0;
```

```
QY 1 GGTTCAGCGCCCCCTGCTCAGGTGTACATCCGCCGATACAGACGGCCCT 59
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
DB 1 GGATCCACCGCGCGCTGCGCAGGAGTGCATCGCGCGCCGACACGCGCCGCTCC 59
```

```
RESULT 13
```

```
US-10-057-136-6
; Sequence 6, Application US/10057136
; Publication No. US20030021770A1
; GENERAL INFORMATION:
; APPLICANT: SCHLOM, JEFFREY
; APPLICANT: KANTOR, JUDITH
; APPLICANT: KUFU, DONALD
; APPLICANT: PANICALI, DENNIS
; APPLICANT: GRITZ, LINDA
; TITLE OF INVENTION: RECOMBINANT FOX VIRUS FOR IMMUNIZATION AGAINST MUC1
; FILE REFERENCE: 700953/47113C
; CURRENT APPLICATION NUMBER: US/10/057,136
; CURRENT FILING DATE: 2002-01-25
; PRIOR APPLICATION NUMBER: 09/366,670
; PRIOR FILING DATE: 1999-08-03
; PRIOR APPLICATION NUMBER: PCT/US98/03693
; PRIOR FILING DATE: 1998-02-24
; PRIOR APPLICATION NUMBER: 60/038,253
; PRIOR FILING DATE: 1997-02-24
; NUMBER OF SEQ ID NOS: 20
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 6
; LENGTH: 60
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-057-136-6
```

```
Query Match      50.3%; Score 30.2; DB 5; Length 60;
Best Local Similarity 69.5%; Pred. No. 0.2;
Matches 41; Conservative 0; Mismatches 18; Indels 0; Gaps 0;
```

```
QY 1 GGTTCAGCGCCCCCTGCTCAGGTGTACATCCGCCGATACAGACGGCCCT 59
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
DB 1 GGTTCACAGCTCTCCCGCTCATGGGTTACTTGTCTCAATACTCGCCAGCTCC 59
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```
RESULT 14
```

```

US-10-057-136-9
; Sequence 9, Application US/10057136
; Publication No. US20030021770A1
; GENERAL INFORMATION:
; APPLICANT: SCHLOW, JEFFREY
; APPLICANT: KANTOR, JUDITH
; APPLICANT: KUFE, DONALD
; APPLICANT: PANICALI, DENNIS
; APPLICANT: GRITZ, LINDA
; TITLE OF INVENTION: RECOMBINANT POX VIRUS FOR IMMUNIZATION AGAINST MUC1
; FILE REFERENCE: 700953/47113C
; CURRENT APPLICATION NUMBER: US/10/057,136
; PRIOR FILING DATE: 2002-01-25
; PRIOR FILING DATE: 1999-08-03
; PRIOR APPLICATION NUMBER: PCT/US98/03693
; PRIOR FILING DATE: 1998-02-24
; PRIOR APPLICATION NUMBER: 60/038,253
; NUMBER OF SEQ ID NOS: 20
; SOFTWARE: Patentln Ver. 2.1
; SEQ ID NO 9
; LENGTH: 60
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-057-136-9

```

```

Query Match      48.3%; Score 29; DB 5; Length 60;
Best Local Similarity 71.7%; Pred. No. 0.56;
Matches 38; Conservative 0; Mismatches 15; Indels 0; Gaps 0;

```

```

QY      7 ACGGCCCCCTGCTCAGGTGTATACATCGCCCGGATACAGACCGGCCCC 59
      |||||
Db      7 ACCGCTCAGCTGCACACGGGGTACAGCGCGCAGACACTGACCTGCGCC 59

```

```

RESULT 15
US-10-471-607-4/c
; Sequence 4, Application US/10471607
; Publication No. US20040115740A1
; GENERAL INFORMATION:
; APPLICANT: The Victoria University of Manchester
; APPLICANT: Benson, Roderick
; TITLE OF INVENTION: Intracellular analysis.
; FILE REFERENCE: P088657PWO
; CURRENT APPLICATION NUMBER: US/10/471,607
; PRIOR FILING DATE: 2003-09-24
; PRIOR APPLICATION NUMBER: GB 0108165.2
; PRIOR FILING DATE: 3001-03-21
; NUMBER OF SEQ ID NOS: 16
; SOFTWARE: Patentln version 3.1
; SEQ ID NO 4
; LENGTH: 93
; TYPE: DNA
; ORGANISM: Artificial
; FEATURE:
; OTHER INFORMATION: Artificial epitope construct
US-10-471-607-4

```

```

Query Match      47.7%; Score 28.6; DB 7; Length 93;
Best Local Similarity 72.5%; Pred. No. 0.77;
Matches 37; Conservative 0; Mismatches 14; Indels 0; Gaps 0;

```

```

QY      1 GGTTGACGGCCCCCTGCTCAGGTGTATACATCGCCCGGATACAGACA 51
      |||||
Db      57 GGCTCAACAGCCCCCGAGCTCATGTGTACACTCAGCTCCCGAGTGCACA 7

```

Search completed: March 27, 2006, 17:07:46
 Job time : 372.4 secs

This Page Blank (uspto)

GenCore version 5.1.7
Copyright (c) 1993 - 2006 Bioceleration Ltd.

OM nucleic - nucleic search, using sw model

Run on: March 27, 2006, 13:48:29 ; Search time 55.5 Seconds
(without alignments)
1921.688 Million cell updates/sec

Title: US-10-057-136A-7
Perfect score: 60
Sequence: 1 GGTTGACGGCCCCCCTGCTC.....CGGATACGACCGGCCCT 60

Scoring table: IDENTITY NUC
Gapop 10.0 , Gapext 1.0

Searched: 1303057 seqs, 888780828 residues

Total number of hits satisfying chosen parameters: 1790828

Minimum DB seq length: 0
Maximum DB seq length: 500

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued Patents NA:*
1: /cgn2_6/ptodata/1/ina/1_COMB.seq:*
2: /cgn2_6/ptodata/1/ina/5_COMB.seq:*
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4: /cgn2_6/ptodata/1/ina/6B_COMB.seq:*
5: /cgn2_6/ptodata/1/ina/H_COMB.seq:*
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7: /cgn2_6/ptodata/1/ina/PP_COMB.seq:*
8: /cgn2_6/ptodata/1/ina/RE_COMB.seq:*
9: /cgn2_6/ptodata/1/ina/backfile1.seq:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	length	DB ID	Description
1	38	63.3	60	3	US-09-475-947A-246
2	27	45.0	78	3	US-09-304-967-98
3	25.6	42.7	392	3	US-09-513-999C-2024
4	25.2	42.0	83	3	US-09-304-967-75
5	25	41.7	68	3	US-09-304-967-53
6	24.2	40.3	83	3	US-09-304-967-49
7	24.2	40.3	83	3	US-09-304-967-69
8	24.2	40.3	83	3	US-09-304-967-71
9	24	40.0	78	3	US-09-304-967-96
10	23.4	39.0	68	3	US-09-304-967-57
11	23.4	39.0	78	3	US-09-304-967-92
12	23.2	38.7	48	3	US-09-304-967-47
13	23.2	38.7	48	3	US-09-304-967-67
14	23.2	38.7	48	3	US-09-304-967-90
15	23.2	38.7	68	3	US-09-304-967-51
16	23.2	38.7	68	3	US-09-304-967-55
17	23.2	38.7	78	3	US-09-304-967-94
18	23.2	38.7	78	3	US-09-304-967-100
19	23.2	38.7	78	3	US-09-304-967-102
20	23.2	38.7	83	3	US-09-304-967-73
21	23.2	38.7	83	3	US-09-304-967-77
22	23.2	38.7	83	3	US-09-304-967-79
23	22.4	37.3	387	3	US-09-902-540-8198
24	21.8	36.3	143	3	US-09-513-999C-10197

c	25	21.8	36.3	459	3	US-09-358-580-7	Sequence 7, Appli
c	26	21.8	36.3	459	3	US-09-358-580-9	Sequence 9, Appli
c	27	21.2	35.3	468	3	US-09-902-540-2835	Sequence 2835, Ap
c	28	21	35.0	272	3	US-09-621-976-10063	Sequence 10063, A
	29	20.8	34.7	248	3	US-09-117-121-17	Sequence 17, Appli
	30	20.8	34.7	262	3	US-09-117-121-21	Sequence 21, Appli
	31	20.8	34.7	387	3	US-09-902-540-6863	Sequence 6863, Ap
	32	20.8	34.7	395	3	US-09-117-121-40	Sequence 40, Appli
	33	20.6	34.3	346	3	US-09-270-767-8493	Sequence 8493, Ap
	34	20.6	34.3	406	3	US-09-270-767-23775	Sequence 23775, A
	35	20.6	34.3	420	2	US-08-928-799A-1	Sequence 1, Appli
	36	20.6	34.3	420	2	US-08-470-179-148	Sequence 148, App
	37	20.4	34.0	380	3	US-09-270-767-27193	Sequence 27193, A
	38	20.2	33.7	169	3	US-09-270-767-2836	Sequence 2836, Ap
	39	20.2	33.7	169	3	US-09-270-767-18118	Sequence 18118, A
	40	20.2	33.7	302	3	US-09-313-294A-3832	Sequence 3832, Ap
	41	20.2	33.7	381	3	US-09-489-039A-1412	Sequence 1412, Ap
	42	20.2	33.7	469	3	US-09-621-976-17994	Sequence 17994, A
c	43	20	33.3	309	3	US-09-902-540-8227	Sequence 8227, Ap
c	44	20	33.3	364	3	US-09-621-976-17202	Sequence 17202, A
c	45	20	33.3	419	3	US-09-513-999C-13350	Sequence 13350, A

ALIGNMENTS

RESULT 1
US-09-475-947A-246
; Sequence 246, Application US/09475947A
; Patent No. 6472154
; GENERAL INFORMATION:
; APPLICANT: Garner, Harold R.
; APPLICANT: Wren, Jonathan D.
; APPLICANT: Minna, John D.
; TITLE OF INVENTION: Polymorphic Repeats in Human Genes
; FILE REFERENCE: UTS0667
; CURRENT APPLICATION NUMBER: US/09/475, 947A
; CURRENT FILING DATE: 1999-12-31
; NUMBER OF SEQ ID NOS: 346
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 246
; LENGTH: 60
; TYPE: DNA
; ORGANISM: human
US-09-475-947A-246

Query Match 63.3%; Score 38; DB 3; Length 60;
Best Local Similarity 81.5%; Pred. No. 0.00039;
Matches 44; Conservative 0; Mismatches 10; Indels 0; Gaps 0;

QY 1 GGTTGACGGCCCCCTGCTCAGGTGTAACATCCGCCCGGATACGACCG 54
Db 7 GGTTCCACCGCCCCCGACCGGTGTACCTCGCCCCGACACGAGCGG 60

RESULT 2
US-09-304-967-98
; Sequence 98, Application US/09304967
; Patent No. 6884623
; GENERAL INFORMATION:
; APPLICANT: Lomonosoff, George P.
; APPLICANT: Johnson, John E.
; APPLICANT: Bendig, Mary
; APPLICANT: Jones, Tim
; APPLICANT: Longstaff, Marian
; TITLE OF INVENTION: Modified Plant Viruses as Vectors of Heterologous
; FILE REFERENCE: DOW-04646
; CURRENT APPLICATION NUMBER: US/09/304, 967
; CURRENT FILING DATE: 1999-05-05
; PRIOR APPLICATION NUMBER: 08/471, 048
; PRIOR FILING DATE: 1995-06-06
; PRIOR APPLICATION NUMBER: 08/612, 858

```
; PRIOR FILING DATE: 1996-03-12
; PRIOR APPLICATION NUMBER: 08/137,032
; PRIOR FILING DATE: 1993-03-18
; PRIOR APPLICATION NUMBER: PCT/GB20/00589
; PRIOR FILING DATE: 1992-04-02
; NUMBER OF SEQ ID NOS: 123
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 98
; LENGTH: 78
; TYPE: DNA
; ORGANISM: Red clover necrotic mosaic virus
US-09-304-967-98
```

```
Query Match      45.0%; Score 27; DB 3; Length 78;
Best Local Similarity 76.7%; Pred. No. 2.6;
Matches 33; Conservative 0; Mismatches 10; Indels 0; Gaps 0;
```

```
QY      18 TGCTACGGGTGTATACATCCGCCGCGATACAGACCGGCCCT 60
      |||||
Db      13 TGATCTCGGTGTACTTCTGCTCCTGATAGACTGCTCCT 55
```

RESULT 3

```
US-09-513-999C-2024
; Sequence 2024, Application US/09513999C
; Patent No. 6783961
; GENERAL INFORMATION:
; APPLICANT: Dumas Milne Edwards, J.B.
; APPLICANT: Duclert, A.
; APPLICANT: Giordano, J.Y.
; TITLE OF INVENTION: Expressed Sequence Tags and Encoded Human Proteins.
; Patent No. 6783961
; FILE REFERENCE: 59.US2.REG
; CURRENT APPLICATION NUMBER: US/09/513,999C
; PRIOR FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: US 60/122,487
; PRIOR FILING DATE: 1999-02-26
; NUMBER OF SEQ ID NOS: 36681
; SOFTWARE: Patent.pm
; SEQ ID NO 2024
; LENGTH: 392
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 115..390
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: 65
; OTHER INFORMATION: s=g or c
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: 326
; OTHER INFORMATION: n=a, g, c or t
; FEATURE:
; NAME/KEY: UNSURE
; LOCATION: 71
; OTHER INFORMATION: Xaa=Ile or Asn or Ser or Thr
US-09-513-999C-2024
```

```
Query Match      42.7%; Score 25.6; DB 3; Length 392;
Best Local Similarity 69.4%; Pred. No. 9.7;
Matches 34; Conservative 0; Mismatches 15; Indels 0; Gaps 0;
```

```
QY      12 CCCCCCTGCTCAGCGGTGTACATCCGCCCGGATACAGACCGGCCCT 60
      |||||
Db      293 CCACCTTCCTCATGAGCAACATGAGCCCGGANCACGCTCTGGCACT 341
```

```
RESULT 4
US-09-304-967-75
; Sequence 75, Application US/09304967
; Patent No. 6884623
```

```
; GENERAL INFORMATION:
; APPLICANT: Lomonosoff, George P.
; APPLICANT: Johnson, John E.
; APPLICANT: Bendig, Mary
; APPLICANT: Jones, Tim
; APPLICANT: Longstaff, Marian
; TITLE OF INVENTION: Modified Plant Viruses as Vectors of Heterologous
; FILE REFERENCE: DOW-04646
; CURRENT APPLICATION NUMBER: US/09/304,967
; PRIOR FILING DATE: 1999-05-05
; PRIOR APPLICATION NUMBER: 08/471,048
; PRIOR FILING DATE: 1995-06-06
; PRIOR APPLICATION NUMBER: 08/612,858
; PRIOR FILING DATE: 1996-03-12
; PRIOR APPLICATION NUMBER: 08/137,032
; PRIOR FILING DATE: 1993-03-18
; PRIOR APPLICATION NUMBER: PCT/GB20/00589
; PRIOR FILING DATE: 1992-04-02
; NUMBER OF SEQ ID NOS: 123
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 75
; LENGTH: 83
; TYPE: DNA
; ORGANISM: Lucerne transient streak virus
US-09-304-967-75
```

```
Query Match      42.0%; Score 25.2; DB 3; Length 83;
Best Local Similarity 78.9%; Pred. No. 11;
Matches 30; Conservative 0; Mismatches 8; Indels 0; Gaps 0;
```

```
QY      23 ACGGTGTACATCCGCCCGGATACAGACCGGCCCT 60
      |||||
Db      17 ACGGTGTACTTCTGCTCCTGATAGACTGCTCCT 54
```

RESULT 5

```
US-09-304-967-53
; Sequence 53, Application US/09304967
; Patent No. 6884623
; GENERAL INFORMATION:
; APPLICANT: Lomonosoff, George P.
; APPLICANT: Johnson, John E.
; APPLICANT: Bendig, Mary
; APPLICANT: Jones, Tim
; APPLICANT: Longstaff, Marian
; TITLE OF INVENTION: Modified Plant Viruses as Vectors of Heterologous
; FILE REFERENCE: DOW-04646
; CURRENT APPLICATION NUMBER: US/09/304,967
; PRIOR FILING DATE: 1999-05-05
; PRIOR APPLICATION NUMBER: 08/471,048
; PRIOR FILING DATE: 1995-06-06
; PRIOR APPLICATION NUMBER: 08/612,858
; PRIOR FILING DATE: 1996-03-12
; PRIOR APPLICATION NUMBER: 08/137,032
; PRIOR FILING DATE: 1993-03-18
; PRIOR APPLICATION NUMBER: PCT/GB20/00589
; PRIOR FILING DATE: 1992-04-02
; NUMBER OF SEQ ID NOS: 123
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 53
; LENGTH: 68
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
US-09-304-967-53
```

```
Query Match      41.7%; Score 25; DB 3; Length 68;
Best Local Similarity 75.6%; Pred. No. 13;
Matches 31; Conservative 0; Mismatches 10; Indels 0; Gaps 0;
```

QY 20 CTCACGCTGTAACATCCGCCCCGGATACGACCGGCCCT 60
| | | | | | | | | | | | | | | | | | | | | |
Db 7 CTAGGGTGTACTTCTGCTCTGATAGACCTGCTCCT 47

RESULT 6

US-09-304-967-49
; Sequence 49, Application US/09304967
; Patent No. 6884623
; GENERAL INFORMATION:
; APPLICANT: Lomonosoff, George P.
; APPLICANT: Johnson, John E.
; APPLICANT: Bendig, Mary
; APPLICANT: Jones, Tim
; APPLICANT: Longstaff, Marian
; TITLE OF INVENTION: Modified Plant Viruses as Vectors of Heterologous
; TITLE OF INVENTION: Peptides
; FILE REFERENCE: DOW-04646
; CURRENT APPLICATION NUMBER: US/09/304,967
; CURRENT FILING DATE: 1999-05-05
; PRIOR APPLICATION NUMBER: 08/471,048
; PRIOR FILING DATE: 1995-06-06
; PRIOR APPLICATION NUMBER: 08/612,858
; PRIOR FILING DATE: 1996-03-12
; PRIOR APPLICATION NUMBER: 08/137,032
; PRIOR FILING DATE: 1993-03-18
; PRIOR APPLICATION NUMBER: PCT/GB20/00589
; PRIOR FILING DATE: 1992-04-02
; NUMBER OF SEQ ID NOS: 123
; SOFTWARE: Patentln Ver. 2.0
; SEQ ID NO 49
; LENGTH: 68
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
US-09-304-967-49

Query Match 40.3%; Score 24.2; DB 3; Length 68;
Best Local Similarity 78.4%; Pred. No. 24;
Matches 29; Conservative 0; Mismatches 8; Indels 0; Gaps 0;

QY 24 CGGTGTAACATCCGCCCCGGATACGACCGGCCCT 60
| | | | | | | | | | | | | | | | | | | | | |
Db 5 CGGTGTAACATCTGCTCTGATAGACCTGCTCCT 41

RESULT 7

US-09-304-967-69
; Sequence 69, Application US/09304967
; Patent No. 6884623
; GENERAL INFORMATION:
; APPLICANT: Lomonosoff, George P.
; APPLICANT: Johnson, John E.
; APPLICANT: Bendig, Mary
; APPLICANT: Jones, Tim
; APPLICANT: Longstaff, Marian
; TITLE OF INVENTION: Modified Plant Viruses as Vectors of Heterologous
; TITLE OF INVENTION: Peptides
; FILE REFERENCE: DOW-04646
; CURRENT APPLICATION NUMBER: US/09/304,967
; CURRENT FILING DATE: 1999-05-05
; PRIOR APPLICATION NUMBER: 08/471,048
; PRIOR FILING DATE: 1995-06-06
; PRIOR APPLICATION NUMBER: 08/612,858
; PRIOR FILING DATE: 1996-03-12
; PRIOR APPLICATION NUMBER: 08/137,032
; PRIOR FILING DATE: 1993-03-18
; PRIOR APPLICATION NUMBER: PCT/GB20/00589
; PRIOR FILING DATE: 1992-04-02
; NUMBER OF SEQ ID NOS: 123
; SOFTWARE: Patentln Ver. 2.0
; SEQ ID NO 69

; LENGTH: 83
; TYPE: DNA
; ORGANISM: Lucerne transient streak virus
US-09-304-967-69

Query Match 40.3%; Score 24.2; DB 3; Length 83;
Best Local Similarity 78.4%; Pred. No. 24;
Matches 29; Conservative 0; Mismatches 8; Indels 0; Gaps 0;

QY 24 CGGTGTAACATCCGCCCCGGATACGACCGGCCCT 60
| | | | | | | | | | | | | | | | | | | | | |
Db 9 CGGTGTAACATCTGCTCTGATAGACCTGCTCCT 45

RESULT 8

US-09-304-967-71
; Sequence 71, Application US/09304967
; Patent No. 6884623
; GENERAL INFORMATION:
; APPLICANT: Lomonosoff, George P.
; APPLICANT: Johnson, John E.
; APPLICANT: Bendig, Mary
; APPLICANT: Jones, Tim
; APPLICANT: Longstaff, Marian
; TITLE OF INVENTION: Modified Plant Viruses as Vectors of Heterologous
; TITLE OF INVENTION: Peptides
; FILE REFERENCE: DOW-04646
; CURRENT APPLICATION NUMBER: US/09/304,967
; CURRENT FILING DATE: 1999-05-05
; PRIOR APPLICATION NUMBER: 08/471,048
; PRIOR FILING DATE: 1995-06-06
; PRIOR APPLICATION NUMBER: 08/612,858
; PRIOR FILING DATE: 1996-03-12
; PRIOR APPLICATION NUMBER: 08/137,032
; PRIOR FILING DATE: 1993-03-18
; PRIOR APPLICATION NUMBER: PCT/GB20/00589
; PRIOR FILING DATE: 1992-04-02
; NUMBER OF SEQ ID NOS: 123
; SOFTWARE: Patentln Ver. 2.0
; SEQ ID NO 71
; LENGTH: 83
; TYPE: DNA
; ORGANISM: Lucerne transient streak virus
US-09-304-967-71

Query Match 40.3%; Score 24.2; DB 3; Length 83;
Best Local Similarity 78.4%; Pred. No. 24;
Matches 29; Conservative 0; Mismatches 8; Indels 0; Gaps 0;

QY 24 CGGTGTAACATCCGCCCCGGATACGACCGGCCCT 60
| | | | | | | | | | | | | | | | | | | | | |
Db 12 CGGTGTAACATCTGCTCTGATAGACCTGCTCCT 48

RESULT 9

US-09-304-967-96
; Sequence 96, Application US/09304967
; Patent No. 6884623
; GENERAL INFORMATION:
; APPLICANT: Lomonosoff, George P.
; APPLICANT: Johnson, John E.
; APPLICANT: Bendig, Mary
; APPLICANT: Jones, Tim
; APPLICANT: Longstaff, Marian
; TITLE OF INVENTION: Modified Plant Viruses as Vectors of Heterologous
; TITLE OF INVENTION: Peptides
; FILE REFERENCE: DOW-04646
; CURRENT APPLICATION NUMBER: US/09/304,967
; CURRENT FILING DATE: 1999-05-05
; PRIOR APPLICATION NUMBER: 08/471,048
; PRIOR FILING DATE: 1995-06-06
; PRIOR APPLICATION NUMBER: 08/612,858
; PRIOR FILING DATE: 1996-03-12

```
; PRIOR APPLICATION NUMBER: 08/137,032
; PRIOR FILING DATE: 1993-03-18
; PRIOR APPLICATION NUMBER: PCT/GB20/00589
; PRIOR FILING DATE: 1992-04-02
; NUMBER OF SEQ ID NOS: 123
; SOFTWARE: Patentln Ver. 2.0
; SEQ ID NO 96
; LENGTH: 78
; TYPE: DNA
; ORGANISM: Red clover necrotic mosaic virus
US-09-304-967-96
```

```
Query Match          40.0%; Score 24; DB 3; Length 78;
Best Local Similarity 75.0%; Pred. No. 28;
Matches 30; Conservative 0; Mismatches 10; Indels 0; Gaps 0;
```

```
QY      21 TCACGGGTGTAACATCCGCCCGGATACGAGCCGCCCT 60
Db      13 TCATGGTGTACTTCTGCTCCTGATAGACCTGCTCCT 52
```

RESULT 10

```
US-09-304-967-57
; Sequence 57, Application US/09304967
; Patent No. 6884623
; GENERAL INFORMATION:
; APPLICANT: Lomonosoff, George P.
; APPLICANT: Johnson, John E.
; APPLICANT: Bendig, Mary
; APPLICANT: Jones, Tim
; APPLICANT: Longstaff, Marian
; TITLE OF INVENTION: Modified Plant Viruses as Vectors of Heterologous
; TITLE OF INVENTION: Peptides
; FILE REFERENCE: DOM-04646
; CURRENT APPLICATION NUMBER: US/09/304,967
; PRIOR FILING DATE: 1999-05-05
; PRIOR APPLICATION NUMBER: 08/471,048
; PRIOR FILING DATE: 1995-06-06
; PRIOR APPLICATION NUMBER: 08/612,858
; PRIOR FILING DATE: 1996-03-12
; PRIOR APPLICATION NUMBER: 08/137,032
; PRIOR FILING DATE: 1993-03-18
; PRIOR APPLICATION NUMBER: PCT/GB20/00589
; PRIOR FILING DATE: 1992-04-02
; NUMBER OF SEQ ID NOS: 123
; SOFTWARE: Patentln Ver. 2.0
; SEQ ID NO 57
; LENGTH: 68
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
US-09-304-967-57
```

```
Query Match          39.0%; Score 23.4; DB 3; Length 68;
Best Local Similarity 73.2%; Pred. No. 45;
Matches 30; Conservative 0; Mismatches 11; Indels 0; Gaps 0;
```

```
QY      20 CTCACGGGTGTAACATCCGCCCGGATACGAGCCGCCCT 60
Db      13 CTGCTGTGTACTTCTGCTCCTGATAGACCTGCTCCT 53
```

RESULT 11

```
US-09-304-967-92
; Sequence 92, Application US/09304967
; Patent No. 6884623
; GENERAL INFORMATION:
; APPLICANT: Lomonosoff, George P.
; APPLICANT: Johnson, John E.
; APPLICANT: Bendig, Mary
; APPLICANT: Jones, Tim
; APPLICANT: Longstaff, Marian
```

```
; TITLE OF INVENTION: Modified Plant Viruses as Vectors of Heterologous
; TITLE OF INVENTION: Peptides
; FILE REFERENCE: DOM-04646
; CURRENT APPLICATION NUMBER: US/09/304,967
; PRIOR FILING DATE: 1999-05-05
; PRIOR APPLICATION NUMBER: 08/471,048
; PRIOR FILING DATE: 1995-06-06
; PRIOR APPLICATION NUMBER: 08/612,858
; PRIOR FILING DATE: 1996-03-12
; PRIOR APPLICATION NUMBER: 08/137,032
; PRIOR FILING DATE: 1993-03-18
; PRIOR APPLICATION NUMBER: PCT/GB20/00589
; PRIOR FILING DATE: 1992-04-02
; NUMBER OF SEQ ID NOS: 123
; SOFTWARE: Patentln Ver. 2.0
; SEQ ID NO 92
; LENGTH: 78
; TYPE: DNA
; ORGANISM: Red clover necrotic mosaic virus
US-09-304-967-92
```

```
Query Match          39.0%; Score 23.4; DB 3; Length 78;
Best Local Similarity 73.2%; Pred. No. 46;
Matches 30; Conservative 0; Mismatches 11; Indels 0; Gaps 0;
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```
QY      20 CTCACGGGTGTAACATCCGCCCGGATACGAGCCGCCCT 60
Db      6  CTGTAGGTGTACTTCTGCTCCTGATAGACCTGCTCCT 46
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RESULT 12

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US-09-304-967-47
; Sequence 47, Application US/09304967
; Patent No. 6884623
; GENERAL INFORMATION:
; APPLICANT: Lomonosoff, George P.
; APPLICANT: Johnson, John E.
; APPLICANT: Bendig, Mary
; APPLICANT: Jones, Tim
; APPLICANT: Longstaff, Marian
; TITLE OF INVENTION: Modified Plant Viruses as Vectors of Heterologous
; TITLE OF INVENTION: Peptides
; FILE REFERENCE: DOM-04646
; CURRENT APPLICATION NUMBER: US/09/304,967
; PRIOR FILING DATE: 1999-05-05
; PRIOR APPLICATION NUMBER: 08/471,048
; PRIOR FILING DATE: 1995-06-06
; PRIOR APPLICATION NUMBER: 08/612,858
; PRIOR FILING DATE: 1996-03-12
; PRIOR APPLICATION NUMBER: 08/137,032
; PRIOR FILING DATE: 1993-03-18
; PRIOR APPLICATION NUMBER: PCT/GB20/00589
; PRIOR FILING DATE: 1992-04-02
; NUMBER OF SEQ ID NOS: 123
; SOFTWARE: Patentln Ver. 2.0
; SEQ ID NO 47
; LENGTH: 48
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-304-967-47
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```
Query Match          38.7%; Score 23.2; DB 3; Length 48;
Best Local Similarity 77.8%; Pred. No. 51;
Matches 28; Conservative 0; Mismatches 8; Indels 0; Gaps 0;
```

```
QY      25 GGTGTACATCCGCCCGGATACGAGCCGCCCT 60
Db      1  GGTGTACTTCTGCTCCTGATAGACCTGCTCCT 36
```

RESULT 13

```
US-09-304-967-67
; Sequence 67, Application US/09304967
```

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; Patent No. 6884623
; GENERAL INFORMATION:
; APPLICANT: Lomonosoff, George P.
; APPLICANT: Johnson, John E.
; APPLICANT: Bendig, Mary
; APPLICANT: Jones, Tim
; APPLICANT: Longstaff, Marian
; TITLE OF INVENTION: Modified Plant Viruses as Vectors of Heterologous
; TITLE OF INVENTION: Peptides
; FILE REFERENCE: DOW-04646
; CURRENT APPLICATION NUMBER: US/09/304,967
; CURRENT FILING DATE: 1999-05-05
; PRIOR APPLICATION NUMBER: 08/471,048
; PRIOR FILING DATE: 1995-06-06
; PRIOR APPLICATION NUMBER: 08/612,858
; PRIOR FILING DATE: 1996-03-12
; PRIOR APPLICATION NUMBER: 08/137,032
; PRIOR FILING DATE: 1993-03-18
; PRIOR APPLICATION NUMBER: PCT/GB20/00589
; PRIOR FILING DATE: 1992-04-02
; NUMBER OF SEQ ID NOS: 123
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 67
; LENGTH: 48
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-304-967-67
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Query Match          38.7%; Score 23.2; DB 3; Length 48;
Best Local Similarity 77.8%; Pred. No. 51;
Matches 28; Conservative 0; Mismatches 8; Indels 0; Gaps 0;
```

```
QY      25 GGTGTACATCCGCCCGGATACGAGCCGCCCT 60
      ||||| ||||| ||||| ||||| ||||| |||||
Db      1 GGTGTACTTCTGCTCTGATAGACTGCTCTCT 36
```

```
RESULT 14
US-09-304-967-90
; Sequence 90, Application US/09304967
; Patent No. 6884623
; GENERAL INFORMATION:
; APPLICANT: Lomonosoff, George P.
; APPLICANT: Johnson, John E.
; APPLICANT: Bendig, Mary
; APPLICANT: Jones, Tim
; APPLICANT: Longstaff, Marian
; TITLE OF INVENTION: Modified Plant Viruses as Vectors of Heterologous
; TITLE OF INVENTION: Peptides
; FILE REFERENCE: DOW-04646
; CURRENT APPLICATION NUMBER: US/09/304,967
; CURRENT FILING DATE: 1999-05-05
; PRIOR APPLICATION NUMBER: 08/471,048
; PRIOR FILING DATE: 1995-06-06
; PRIOR APPLICATION NUMBER: 08/612,858
; PRIOR FILING DATE: 1996-03-12
; PRIOR APPLICATION NUMBER: 08/137,032
; PRIOR FILING DATE: 1993-03-18
; PRIOR APPLICATION NUMBER: PCT/GB20/00589
; PRIOR FILING DATE: 1992-04-02
; NUMBER OF SEQ ID NOS: 123
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 90
; LENGTH: 48
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-304-967-90
```

```
Query Match          38.7%; Score 23.2; DB 3; Length 48;
Best Local Similarity 77.8%; Pred. No. 51;
Matches 28; Conservative 0; Mismatches 8; Indels 0; Gaps 0;
```

```
QY      25 GGTGTACATCCGCCCGGATACGAGCCGCCCT 60
```

```
Db      1 GGTGTACTTCTGCTCTGATAGACTGCTCTCT 36
```

```
RESULT 15
US-09-304-967-51
; Sequence 51, Application US/09304967
; Patent No. 6884623
; GENERAL INFORMATION:
; APPLICANT: Lomonosoff, George P.
; APPLICANT: Johnson, John E.
; APPLICANT: Bendig, Mary
; APPLICANT: Jones, Tim
; APPLICANT: Longstaff, Marian
; TITLE OF INVENTION: Modified Plant Viruses as Vectors of Heterologous
; TITLE OF INVENTION: Peptides
; FILE REFERENCE: DOW-04646
; CURRENT APPLICATION NUMBER: US/09/304,967
; CURRENT FILING DATE: 1999-05-05
; PRIOR APPLICATION NUMBER: 08/471,048
; PRIOR FILING DATE: 1995-06-06
; PRIOR APPLICATION NUMBER: 08/612,858
; PRIOR FILING DATE: 1996-03-12
; PRIOR APPLICATION NUMBER: 08/137,032
; PRIOR FILING DATE: 1993-03-18
; PRIOR APPLICATION NUMBER: PCT/GB20/00589
; PRIOR FILING DATE: 1992-04-02
; NUMBER OF SEQ ID NOS: 123
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 51
; LENGTH: 68
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
US-09-304-967-51
```

```
Query Match          38.7%; Score 23.2; DB 3; Length 68;
Best Local Similarity 77.8%; Pred. No. 53;
Matches 28; Conservative 0; Mismatches 8; Indels 0; Gaps 0;
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QY      25 GGTGTACATCCGCCCGGATACGAGCCGCCCT 60
      ||||| ||||| ||||| ||||| ||||| |||||
Db      9 GGTGTACTTCTGCTCTGATAGACTGCTCTCT 44
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Job time : 56.5 secs
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GenCore version 5.1.7
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OM nucleic - nucleic search, using sw model

Run on: March 27, 2006, 13:53:26 ; Search time 321.3 Seconds
(without alignments)
744.399 Million cell updates/sec

Title: US-10-057-136A-6
Perfect score: 60
Sequence: 1 GGGTCACAGCTCTCTCCCGC.....CAGATCTCGCCAGCTCCA 60

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 9258654 seqs, 1993127192 residues

Total number of hits satisfying chosen parameters: 14431810

Minimum DB seq length: 0
Maximum DB seq length: 500

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

- Database : Published Applications NA New:*
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 - 2: /SIDS5/ptodata/2/pubpna/US06_NEW_PUB.seq:*
 - 3: /SIDS5/ptodata/2/pubpna/US07_NEW_PUB.seq:*
 - 4: /SIDS5/ptodata/2/pubpna/PCT_NEW_PUB.seq:*
 - 5: /SIDS5/ptodata/2/pubpna/US09_NEW_PUB.seq:*
 - 6: /SIDS5/ptodata/2/pubpna/US09_NEW_PUB.seq:*
 - 7: /SIDS5/ptodata/2/pubpna/US10_NEW_PUB.seq:*
 - 8: /SIDS5/ptodata/2/pubpna/US10_NEW_PUB.seq:*
 - 9: /SIDS5/ptodata/2/pubpna/US10_NEW_PUB.seq:*
 - 10: /SIDS5/ptodata/2/pubpna/US10_NEW_PUB.seq:*
 - 11: /SIDS5/ptodata/2/pubpna/US11_NEW_PUB.seq:*
 - 12: /SIDS5/ptodata/2/pubpna/US11_NEW_PUB.seq:*
 - 13: /SIDS5/ptodata/2/pubpna/US11_NEW_PUB.seq:*
 - 14: /SIDS5/ptodata/2/pubpna/US11_NEW_PUB.seq:*
 - 15: /SIDS5/ptodata/2/pubpna/US60_NEW_PUB.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB	ID	Description
C 1	28.8	48.0	200	14	US-11-098-686-1696	Sequence 1696, App
2	25.6	42.7	468	8	US-10-401-386B-43	Sequence 43, Appl
C 3	25.4	42.3	222	11	US-11-116-881A-962	Sequence 962, App
4	25.4	42.3	249	11	US-11-116-881A-960	Sequence 960, App
5	25.4	42.3	250	11	US-11-116-881A-948	Sequence 948, App
6	25.4	42.3	251	11	US-11-116-881A-1012	Sequence 1012, App
7	25.4	42.3	277	11	US-11-116-881A-2176	Sequence 2176, App
C 8	25.4	42.3	292	11	US-11-116-881A-2012	Sequence 2012, App
9	25.4	42.3	293	11	US-11-116-881A-996	Sequence 996, App
10	25.4	42.3	294	11	US-11-116-881A-1007	Sequence 1007, App
11	25.4	42.3	294	11	US-11-116-881A-1021	Sequence 1021, App
12	25.4	42.3	295	11	US-11-116-881A-2007	Sequence 2007, App
13	25.4	42.3	302	11	US-11-116-881A-951	Sequence 951, App
14	25.4	42.3	305	11	US-11-116-881A-964	Sequence 964, App
15	25.4	42.3	306	11	US-11-116-881A-971	Sequence 971, App
C 16	25.4	42.3	308	11	US-11-116-881A-956	Sequence 956, App
17	25.4	42.3	309	11	US-11-116-881A-952	Sequence 952, App
18	25.4	42.3	310	11	US-11-116-881A-978	Sequence 978, App

19	25.4	42.3	320	11	US-11-116-881A-1019	Sequence 1019, App
20	25.4	42.3	325	11	US-11-116-881A-946	Sequence 946, App
21	25.4	42.3	328	9	US-10-517-696-41	Sequence 41, Appl
22	25.4	42.3	333	11	US-11-116-881A-1022	Sequence 1022, App
23	25.4	42.3	347	11	US-11-116-881A-979	Sequence 979, App
24	25.4	42.3	414	11	US-11-116-881A-995	Sequence 995, App
C 25	24.8	41.3	201	8	US-10-995-561-12537	Sequence 12537, A
C 26	24.8	41.3	201	8	US-10-995-561-12540	Sequence 12540, A
C 27	24.8	41.3	201	8	US-10-995-561-62938	Sequence 62938, A
C 28	24.8	41.3	201	8	US-10-995-561-62964	Sequence 62964, A
C 29	24.4	40.7	201	8	US-10-995-561-12548	Sequence 12548, A
C 30	24.4	40.7	201	8	US-10-995-561-63000	Sequence 63000, A
C 31	24.4	40.7	494	6	US-09-925-065A-896927	Sequence 896927, A
C 32	23.8	39.7	200	14	US-11-098-686-1698	Sequence 1698, App
C 33	23.8	39.7	201	8	US-10-995-561-4997	Sequence 4997, App
C 34	23.8	39.7	201	8	US-10-995-561-5024	Sequence 5024, App
C 35	23.8	39.7	201	8	US-10-995-561-5053	Sequence 5053, App
C 36	23.8	39.7	201	8	US-10-995-561-5081	Sequence 5081, App
C 37	23.8	39.7	201	8	US-10-995-561-5108	Sequence 5108, App
C 38	23.8	39.7	201	8	US-10-995-561-5129	Sequence 5129, App
C 39	23.8	39.7	201	8	US-10-995-561-5154	Sequence 5154, App
C 40	23.8	39.7	201	8	US-10-995-561-28146	Sequence 28146, A
C 41	23	38.3	200	14	US-11-098-686-1290	Sequence 1290, App
C 42	23	38.3	200	14	US-11-098-686-1697	Sequence 1697, App
43	23	38.3	201	8	US-10-995-561-10768	Sequence 10768, A
44	23	38.3	201	8	US-10-995-561-10791	Sequence 10791, A
45	23	38.3	201	8	US-10-995-561-10814	Sequence 10814, A

ALIGNMENTS

RESULT 1
US-11-098-686-1696/c
; Sequence 1696, Application US/11098686
; Publication No. US20060024696A1
; GENERAL INFORMATION:
; APPLICANT: Kapur, Vivek and Gebhart, Connie J.
; TITLE OF INVENTION: NUCLEIC ACID AND POLYPEPTIDE SEQUENCES
; FILE REFERENCE: 09531-128001
; CURRENT APPLICATION NUMBER: US/11/098, 686
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: PCT/US03/31318
; PRIOR FILING DATE: 2003-10-01
; PRIOR APPLICATION NUMBER: US 60/416,395
; NUMBER OF SEQ ID NOS: 11433
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1696
; LENGTH: 200
; TYPE: DNA
; ORGANISM: Lawsonia intracellularis
US-11-098-686-1696

Query Match 48.0%; Score 28.8; DB 14; Length 200;
Best Local Similarity 69.6%; Pred. No. 2.2;
Matches 39; Conservative 0; Mismatches 17; Indels 0; Gaps 0;

Cy 5 CAACAGCTCCTCCCGCTCATGGGTTACTTCTGCTCCAGATACCTGCCAGCTCCA 60
Db 113 CAGCTGCTCCTCCGGCTCCTGAGGCTCCTGAAGCTCCCGCTGCTCTGAAGCTCCA 58

RESULT 2
US-10-401-386B-43
; Sequence 43, Application US/10401386B
; Publication No. US20050261213A1
; GENERAL INFORMATION:
; APPLICANT: Patrick Branigan
; APPLICANT: Theresa J Goletz
; APPLICANT: David M Knight
; APPLICANT: Stephen G McCarthy


```
; APPLICANT: Bernard J Scallion
; APPLICANT: Linda A Snyder
; TITLE OF INVENTION: Nucleic Acid Compositions and Methods
; TITLE OF INVENTION: for Use
; FILE REFERENCE: CEN 310CIP
; CURRENT APPLICATION NUMBER: US/10/401,386B
; PRIOR APPLICATION NUMBER: 10/247,203
; PRIOR FILING DATE: 2002-03-28
; PRIOR FILING DATE: 2002-09-19
; PRIOR FILING DATE: 2001-10-10
; NUMBER OF SEQ ID NOS: 81
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 43
; LENGTH: 468
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (1)...(468)
US-10-401-386B-43
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Query Match          42.7%; Score 25.6; DB 8; Length 468;
Best Local Similarity 66.1%; Pred. No. 29;
Matches 37; Conservative 0; Mismatches 19; Indels 0; Gaps 0;
```

```
QY      1 GGGTCAACAGCTCTCCCGCTCATGGGGTACTTGTCTCCAGATACCGCCAGC 56
          ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db      412 GGCTCCACCGCCCCCGACGCCGCGTGTACCTCGGCCCGGACACGAGCCGCGC 467
```

RESULT 3

```
US-11-116-881A-962/c
; Sequence 962, Application US/11116881A
; Publication No. US20060041949A1
; GENERAL INFORMATION:
; APPLICANT: Xu, Dongmei
; APPLICANT: Nielsen, Mark T.
; TITLE OF INVENTION: Nicotiana Nucleic Acid Molecules and Uses Thereof
; FILE REFERENCE: 07678/141014
; CURRENT APPLICATION NUMBER: US/11/116,881A
; CURRENT FILING DATE: 2005-04-27
; PRIOR APPLICATION NUMBER: 60/665,451
; PRIOR FILING DATE: 2005-03-24
; PRIOR APPLICATION NUMBER: 60/665,097
; PRIOR FILING DATE: 2005-03-24
; PRIOR APPLICATION NUMBER: 60/646,764
; PRIOR FILING DATE: 2005-01-25
; PRIOR APPLICATION NUMBER: 60/607,357
; PRIOR FILING DATE: 2004-09-03
; PRIOR APPLICATION NUMBER: 60/566,235
; PRIOR FILING DATE: 2004-04-29
; PRIOR APPLICATION NUMBER: 10/934,944
; PRIOR FILING DATE: 2004-09-03
; PRIOR APPLICATION NUMBER: 10/943,507
; PRIOR FILING DATE: 2004-09-17
; PRIOR APPLICATION NUMBER: 60/503,989
; PRIOR FILING DATE: 2003-09-18
; PRIOR APPLICATION NUMBER: 60/485,368
; PRIOR FILING DATE: 2003-07-08
; PRIOR APPLICATION NUMBER: 60/418,933
; PRIOR FILING DATE: 2002-10-16
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 2300
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 962
; LENGTH: 222
; TYPE: DNA
; ORGANISM: Nicotiana tabacum
US-11-116-881A-962
```

```
Query Match          42.3%; Score 25.4; DB 11; Length 222;
Best Local Similarity 68.6%; Pred. No. 32;
```

```
Matches 35; Conservative 0; Mismatches 16; Indels 0; Gaps 0;
```

```
QY      10 GCTCTCCCGCTCATGGGGTACTTGTCTCCAGATACCGCCAGCTCCA 60
          ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db      185 GCTGCTCCCGCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGCA 135
```

RESULT 4

```
US-11-116-881A-960
; Sequence 960, Application US/11116881A
; Publication No. US20060041949A1
; GENERAL INFORMATION:
; APPLICANT: Xu, Dongmei
; APPLICANT: Nielsen, Mark T.
; TITLE OF INVENTION: Nicotiana Nucleic Acid Molecules and Uses Thereof
; FILE REFERENCE: 07678/141014
; CURRENT APPLICATION NUMBER: US/11/116,881A
; CURRENT FILING DATE: 2005-04-27
; PRIOR APPLICATION NUMBER: 60/665,451
; PRIOR FILING DATE: 2005-03-24
; PRIOR APPLICATION NUMBER: 60/665,097
; PRIOR FILING DATE: 2005-03-24
; PRIOR APPLICATION NUMBER: 60/646,764
; PRIOR FILING DATE: 2005-01-25
; PRIOR APPLICATION NUMBER: 60/607,357
; PRIOR FILING DATE: 2004-09-03
; PRIOR APPLICATION NUMBER: 60/566,235
; PRIOR FILING DATE: 2004-04-29
; PRIOR APPLICATION NUMBER: 10/934,944
; PRIOR FILING DATE: 2004-09-03
; PRIOR APPLICATION NUMBER: 10/943,507
; PRIOR FILING DATE: 2004-09-17
; PRIOR APPLICATION NUMBER: 60/503,989
; PRIOR FILING DATE: 2003-09-18
; PRIOR APPLICATION NUMBER: 60/485,368
; PRIOR FILING DATE: 2003-07-08
; PRIOR APPLICATION NUMBER: 60/418,933
; PRIOR FILING DATE: 2002-10-16
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 2300
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 960
; LENGTH: 249
; TYPE: DNA
; ORGANISM: Nicotiana tabacum
US-11-116-881A-960
```

```
Query Match          42.3%; Score 25.4; DB 11; Length 249;
Best Local Similarity 68.6%; Pred. No. 32;
Matches 35; Conservative 0; Mismatches 16; Indels 0; Gaps 0;
```

```
QY      10 GCTCTCCCGCTCATGGGGTACTTGTCTCCAGATACCGCCAGCTCCA 60
          ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db      16 GCTGCTCCCGCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGCA 66
```

RESULT 5

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US-11-116-881A-948
; Sequence 948, Application US/11116881A
; Publication No. US20060041949A1
; GENERAL INFORMATION:
; APPLICANT: Xu, Dongmei
; APPLICANT: Nielsen, Mark T.
; TITLE OF INVENTION: Nicotiana Nucleic Acid Molecules and Uses Thereof
; FILE REFERENCE: 07678/141014
; CURRENT APPLICATION NUMBER: US/11/116,881A
; CURRENT FILING DATE: 2005-04-27
; PRIOR APPLICATION NUMBER: 60/665,451
; PRIOR FILING DATE: 2005-03-24
; PRIOR APPLICATION NUMBER: 60/665,097
; PRIOR FILING DATE: 2005-03-24
; PRIOR APPLICATION NUMBER: 60/646,764
; PRIOR FILING DATE: 2005-01-25
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; PRIOR APPLICATION NUMBER: 60/607,357
; PRIOR FILING DATE: 2004-09-03
; PRIOR APPLICATION NUMBER: 60/566,235
; PRIOR FILING DATE: 2004-04-29
; PRIOR APPLICATION NUMBER: 10/934,944
; PRIOR FILING DATE: 2004-09-03
; PRIOR APPLICATION NUMBER: 10/943,507
; PRIOR FILING DATE: 2004-09-17
; PRIOR APPLICATION NUMBER: 60/503,989
; PRIOR FILING DATE: 2003-09-18
; PRIOR APPLICATION NUMBER: 60/485,368
; PRIOR FILING DATE: 2003-07-08
; PRIOR APPLICATION NUMBER: 60/418,933
; PRIOR FILING DATE: 2002-10-16
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 2300
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 948
; LENGTH: 250
; TYPE: DNA
; ORGANISM: Nicotiana tabacum
US-11-116-881A-948
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Query Match          42.3%; Score 25.4; DB 11; Length 250;
Best Local Similarity 68.6%; Pred. No. 32;
Matches 35; Conservative 0; Mismatches 16; Indels 0; Gaps 0;
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QY      10 GCTCTCCCGCTCATGGGGTTACTTCTGCTCCAGATACTGCCAGCTCCA 60
          ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db      16 GCTGCTCCCGCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGCA 66
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RESULT 6

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US-11-116-881A-1012
; Sequence 1012, Application US/11116881A
; Publication No. US20060041949A1
; GENERAL INFORMATION:
; APPLICANT: Xu, Dongmei
; TITLE OF INVENTION: Nicotiana Nucleic Acid Molecules and Uses Thereof
; FILE REFERENCE: 07678/141014
; CURRENT APPLICATION NUMBER: US/11/116,881A
; CURRENT FILING DATE: 2005-04-27
; PRIOR APPLICATION NUMBER: 60/665,451
; PRIOR FILING DATE: 2005-03-24
; PRIOR APPLICATION NUMBER: 60/665,097
; PRIOR FILING DATE: 2005-03-24
; PRIOR APPLICATION NUMBER: 60/646,764
; PRIOR FILING DATE: 2005-01-25
; PRIOR APPLICATION NUMBER: 60/607,357
; PRIOR FILING DATE: 2004-09-03
; PRIOR APPLICATION NUMBER: 60/566,235
; PRIOR FILING DATE: 2004-04-29
; PRIOR APPLICATION NUMBER: 10/934,944
; PRIOR FILING DATE: 2004-09-03
; PRIOR APPLICATION NUMBER: 10/943,507
; PRIOR FILING DATE: 2004-09-17
; PRIOR APPLICATION NUMBER: 60/503,989
; PRIOR FILING DATE: 2003-09-18
; PRIOR APPLICATION NUMBER: 60/485,368
; PRIOR FILING DATE: 2003-07-08
; PRIOR APPLICATION NUMBER: 60/418,933
; PRIOR FILING DATE: 2002-10-16
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 2300
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1012
; LENGTH: 251
; TYPE: DNA
; ORGANISM: Nicotiana tabacum
US-11-116-881A-1012
```

```
Query Match          42.3%; Score 25.4; DB 11; Length 251;
```

```
Best Local Similarity 68.6%; Pred. No. 32;
Matches 35; Conservative 0; Mismatches 16; Indels 0; Gaps 0;
QY      10 GCTCTCCCGCTCATGGGGTTACTTCTGCTCCAGATACTGCCAGCTCCA 60
          ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db      18 GCTGCTCCCGCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGCA 68
```

RESULT 7

```
US-11-116-881A-2176
; Sequence 2176, Application US/11116881A
; Publication No. US20060041949A1
; GENERAL INFORMATION:
; APPLICANT: Xu, Dongmei
; TITLE OF INVENTION: Nicotiana Nucleic Acid Molecules and Uses Thereof
; FILE REFERENCE: 07678/141014
; CURRENT APPLICATION NUMBER: US/11/116,881A
; CURRENT FILING DATE: 2005-04-27
; PRIOR APPLICATION NUMBER: 60/665,451
; PRIOR FILING DATE: 2005-03-24
; PRIOR APPLICATION NUMBER: 60/665,097
; PRIOR FILING DATE: 2005-03-24
; PRIOR APPLICATION NUMBER: 60/646,764
; PRIOR FILING DATE: 2005-01-25
; PRIOR APPLICATION NUMBER: 60/607,357
; PRIOR FILING DATE: 2004-09-03
; PRIOR APPLICATION NUMBER: 60/566,235
; PRIOR FILING DATE: 2004-04-29
; PRIOR APPLICATION NUMBER: 10/934,944
; PRIOR FILING DATE: 2004-09-03
; PRIOR APPLICATION NUMBER: 10/943,507
; PRIOR FILING DATE: 2004-09-17
; PRIOR APPLICATION NUMBER: 60/503,989
; PRIOR FILING DATE: 2003-09-18
; PRIOR APPLICATION NUMBER: 60/485,368
; PRIOR FILING DATE: 2003-07-08
; PRIOR APPLICATION NUMBER: 60/418,933
; PRIOR FILING DATE: 2002-10-16
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 2300
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 2176
; LENGTH: 277
; TYPE: DNA
; ORGANISM: Nicotiana tabacum
US-11-116-881A-2176
```

```
Query Match          42.3%; Score 25.4; DB 11; Length 277;
Best Local Similarity 68.6%; Pred. No. 33;
Matches 35; Conservative 0; Mismatches 16; Indels 0; Gaps 0;
```

```
QY      10 GCTCTCCCGCTCATGGGGTTACTTCTGCTCCAGATACTGCCAGCTCCA 60
          ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db      18 GCTGCTCCCGCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGCA 68
```

RESULT 8

```
US-11-116-881A-2012/c
; Sequence 2012, Application US/11116881A
; Publication No. US20060041949A1
; GENERAL INFORMATION:
; APPLICANT: Xu, Dongmei
; TITLE OF INVENTION: Nicotiana Nucleic Acid Molecules and Uses Thereof
; FILE REFERENCE: 07678/141014
; CURRENT APPLICATION NUMBER: US/11/116,881A
; CURRENT FILING DATE: 2005-04-27
; PRIOR APPLICATION NUMBER: 60/665,451
; PRIOR FILING DATE: 2005-03-24
; PRIOR APPLICATION NUMBER: 60/665,097
; PRIOR FILING DATE: 2005-03-24
; PRIOR APPLICATION NUMBER: 60/646,764
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; PRIOR FILING DATE: 2005-01-25
; PRIOR APPLICATION NUMBER: 60/607,357
; PRIOR FILING DATE: 2004-09-03
; PRIOR APPLICATION NUMBER: 60/566,235
; PRIOR FILING DATE: 2004-04-29
; PRIOR APPLICATION NUMBER: 10/934,944
; PRIOR FILING DATE: 2004-09-03
; PRIOR APPLICATION NUMBER: 10/943,507
; PRIOR FILING DATE: 2004-09-17
; PRIOR APPLICATION NUMBER: 60/503,989
; PRIOR FILING DATE: 2003-09-18
; PRIOR APPLICATION NUMBER: 60/485,368
; PRIOR FILING DATE: 2003-07-08
; PRIOR APPLICATION NUMBER: 60/418,933
; PRIOR FILING DATE: 2002-10-16
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 2300
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 2012
; LENGTH: 292
; TYPE: DNA
; ORGANISM: Nicotiana tabacum
; US-11-116-881A-2012
```

```
Query Match          42.3%; Score 25.4; DB 11; Length 292;
Best Local Similarity 68.6%; Pred. No. 33;
Matches 35; Conservative 0; Mismatches 16; Indels 0; Gaps 0;
```

```
CY      10 GCTCTCCCGCTCATGGGTTACTTCTGCTCCAGATACTGCCAGCTCCA 60
      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db      272 GCTGCTCCCGCTGCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGCA 222
```

```
RESULT 9
US-11-116-881A-996
; Sequence 996, Application US/11116881A
; Publication No. US20060041949A1
; GENERAL INFORMATION:
; APPLICANT: Xu, Dongmei
; TITLE OF INVENTION: Nicotiana Nucleic Acid Molecules and Uses Thereof
; FILE REFERENCE: 07678/141014
; CURRENT FILING DATE: 2005-04-27
; PRIOR APPLICATION NUMBER: 60/665,451
; PRIOR FILING DATE: 2005-03-24
; PRIOR APPLICATION NUMBER: 60/665,097
; PRIOR FILING DATE: 2005-03-24
; PRIOR APPLICATION NUMBER: 60/646,764
; PRIOR FILING DATE: 2005-01-25
; PRIOR APPLICATION NUMBER: 60/607,357
; PRIOR FILING DATE: 2004-09-03
; PRIOR APPLICATION NUMBER: 60/566,235
; PRIOR FILING DATE: 2004-04-29
; PRIOR APPLICATION NUMBER: 10/934,944
; PRIOR FILING DATE: 2004-09-03
; PRIOR APPLICATION NUMBER: 10/943,507
; PRIOR FILING DATE: 2004-09-17
; PRIOR APPLICATION NUMBER: 60/503,989
; PRIOR FILING DATE: 2003-09-18
; PRIOR APPLICATION NUMBER: 60/485,368
; PRIOR FILING DATE: 2003-07-08
; PRIOR APPLICATION NUMBER: 60/418,933
; PRIOR FILING DATE: 2002-10-16
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 2300
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 996
; LENGTH: 293
; TYPE: DNA
; ORGANISM: Nicotiana tabacum
; US-11-116-881A-996
```

```
Query Match          42.3%; Score 25.4; DB 11; Length 293;
Best Local Similarity 68.6%; Pred. No. 33;
Matches 35; Conservative 0; Mismatches 16; Indels 0; Gaps 0;
```

```
CY      10 GCTCTCCCGCTCATGGGTTACTTCTGCTCCAGATACTGCCAGCTCCA 60
      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db      10 GCTGCTCCCGCTGCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGCA 60
```

```
RESULT 10
US-11-116-881A-1007
; Sequence 1007, Application US/11116881A
; Publication No. US20060041949A1
; GENERAL INFORMATION:
; APPLICANT: Xu, Dongmei
; TITLE OF INVENTION: Nicotiana Nucleic Acid Molecules and Uses Thereof
; FILE REFERENCE: 07678/141014
; CURRENT FILING DATE: 2005-04-27
; PRIOR APPLICATION NUMBER: 60/665,451
; PRIOR FILING DATE: 2005-03-24
; PRIOR APPLICATION NUMBER: 60/665,097
; PRIOR FILING DATE: 2005-03-24
; PRIOR APPLICATION NUMBER: 60/646,764
; PRIOR FILING DATE: 2005-01-25
; PRIOR APPLICATION NUMBER: 60/607,357
; PRIOR FILING DATE: 2004-09-03
; PRIOR APPLICATION NUMBER: 60/566,235
; PRIOR FILING DATE: 2004-04-29
; PRIOR APPLICATION NUMBER: 10/934,944
; PRIOR FILING DATE: 2004-09-03
; PRIOR APPLICATION NUMBER: 10/943,507
; PRIOR FILING DATE: 2004-09-17
; PRIOR APPLICATION NUMBER: 60/503,989
; PRIOR FILING DATE: 2003-09-18
; PRIOR APPLICATION NUMBER: 60/485,368
; PRIOR FILING DATE: 2003-07-08
; PRIOR APPLICATION NUMBER: 60/418,933
; PRIOR FILING DATE: 2002-10-16
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 2300
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1007
; LENGTH: 294
; TYPE: DNA
; ORGANISM: Nicotiana tabacum
; US-11-116-881A-1007
```

```
Query Match          42.3%; Score 25.4; DB 11; Length 294;
Best Local Similarity 68.6%; Pred. No. 33;
Matches 35; Conservative 0; Mismatches 16; Indels 0; Gaps 0;
```

```
CY      10 GCTCTCCCGCTCATGGGTTACTTCTGCTCCAGATACTGCCAGCTCCA 60
      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db      18 GCTGCTCCCGCTGCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGCA 68
```

```
RESULT 11
US-11-116-881A-1021
; Sequence 1021, Application US/11116881A
; Publication No. US20060041949A1
; GENERAL INFORMATION:
; APPLICANT: Xu, Dongmei
; TITLE OF INVENTION: Nicotiana Nucleic Acid Molecules and Uses Thereof
; FILE REFERENCE: 07678/141014
; CURRENT FILING DATE: 2005-04-27
; PRIOR APPLICATION NUMBER: 60/665,451
; PRIOR FILING DATE: 2005-03-24
; PRIOR APPLICATION NUMBER: 60/665,097
; PRIOR FILING DATE: 2005-03-24
```

```
; PRIOR APPLICATION NUMBER: 60/646,764
; PRIOR FILING DATE: 2005-01-25
; PRIOR APPLICATION NUMBER: 60/607,357
; PRIOR FILING DATE: 2004-09-03
; PRIOR APPLICATION NUMBER: 60/566,235
; PRIOR FILING DATE: 2004-04-29
; PRIOR APPLICATION NUMBER: 10/934,944
; PRIOR FILING DATE: 2004-09-03
; PRIOR APPLICATION NUMBER: 10/943,507
; PRIOR FILING DATE: 2004-09-17
; PRIOR APPLICATION NUMBER: 60/503,989
; PRIOR FILING DATE: 2003-09-18
; PRIOR APPLICATION NUMBER: 60/485,368
; PRIOR FILING DATE: 2003-07-08
; PRIOR APPLICATION NUMBER: 60/418,933
; PRIOR FILING DATE: 2002-10-16
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 2300
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1021
; LENGTH: 294
; TYPE: DNA
; ORGANISM: Nicotiana tabacum
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (162)..(162)
; OTHER INFORMATION: n = a, t, c, or g
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (165)..(165)
; OTHER INFORMATION: n = a, t, c, or g
US-11-116-881A-1021
```

```
Query Match          42.3%; Score 25.4; DB 11; Length 294;
Best Local Similarity 68.6%; Pred. No. 33;
Matches 35; Conservative 0; Mismatches 16; Indels 0; Gaps 0;
```

```
Qy      10 GCTCCTCCCGCTCATGGGTTACTTCTGCTCCAGATACGCGCCAGCTCCA 60
      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db      18 GCTGCTCCCGCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGCA 68
```

RESULT 12

```
US-11-116-881A-2007
; Sequence 2007, Application US/11116881A
; Publication No. US20060041949A1
; GENERAL INFORMATION:
; APPLICANT: Xu, Dongmei
; APPLICANT: Nielsen, Mark T.
; TITLE OF INVENTION: Nicotiana Nucleic Acid Molecules and Uses Thereof
; FILE REFERENCE: 07678/141014
; CURRENT APPLICATION NUMBER: US/11/116,881A
; PRIOR FILING DATE: 2005-04-27
; PRIOR APPLICATION NUMBER: 60/665,451
; PRIOR FILING DATE: 2005-03-24
; PRIOR APPLICATION NUMBER: 60/665,097
; PRIOR FILING DATE: 2005-03-24
; PRIOR APPLICATION NUMBER: 60/646,764
; PRIOR FILING DATE: 2005-01-25
; PRIOR APPLICATION NUMBER: 60/607,357
; PRIOR FILING DATE: 2004-09-03
; PRIOR APPLICATION NUMBER: 60/566,235
; PRIOR FILING DATE: 2004-04-29
; PRIOR APPLICATION NUMBER: 10/934,944
; PRIOR FILING DATE: 2004-09-03
; PRIOR APPLICATION NUMBER: 10/943,507
; PRIOR FILING DATE: 2004-09-17
; PRIOR APPLICATION NUMBER: 60/503,989
; PRIOR FILING DATE: 2003-09-18
; PRIOR APPLICATION NUMBER: 60/485,368
; PRIOR FILING DATE: 2003-07-08
; PRIOR APPLICATION NUMBER: 60/418,933
; PRIOR FILING DATE: 2002-10-16
```

```
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 2300
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 2007
; LENGTH: 295
; TYPE: DNA
; ORGANISM: Nicotiana tabacum
US-11-116-881A-2007
```

```
Query Match          42.3%; Score 25.4; DB 11; Length 295;
Best Local Similarity 68.6%; Pred. No. 33;
Matches 35; Conservative 0; Mismatches 16; Indels 0; Gaps 0;
```

```
Qy      10 GCTCCTCCCGCTCATGGGTTACTTCTGCTCCAGATACGCGCCAGCTCCA 60
      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db      18 GCTGCTCCCGCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGCA 68
```

RESULT 13

```
US-11-116-881A-951
; Sequence 951, Application US/11116881A
; Publication No. US20060041949A1
; GENERAL INFORMATION:
; APPLICANT: Xu, Dongmei
; APPLICANT: Nielsen, Mark T.
; TITLE OF INVENTION: Nicotiana Nucleic Acid Molecules and Uses Thereof
; FILE REFERENCE: 07678/141014
; CURRENT APPLICATION NUMBER: US/11/116,881A
; PRIOR FILING DATE: 2005-04-27
; PRIOR APPLICATION NUMBER: 60/665,451
; PRIOR FILING DATE: 2005-03-24
; PRIOR APPLICATION NUMBER: 60/665,097
; PRIOR FILING DATE: 2005-03-24
; PRIOR APPLICATION NUMBER: 60/646,764
; PRIOR FILING DATE: 2005-01-25
; PRIOR APPLICATION NUMBER: 60/607,357
; PRIOR FILING DATE: 2004-09-03
; PRIOR APPLICATION NUMBER: 60/566,235
; PRIOR FILING DATE: 2004-04-29
; PRIOR APPLICATION NUMBER: 10/934,944
; PRIOR FILING DATE: 2004-09-03
; PRIOR APPLICATION NUMBER: 10/943,507
; PRIOR FILING DATE: 2004-09-17
; PRIOR APPLICATION NUMBER: 60/503,989
; PRIOR FILING DATE: 2003-09-18
; PRIOR APPLICATION NUMBER: 60/485,368
; PRIOR FILING DATE: 2003-07-08
; PRIOR APPLICATION NUMBER: 60/418,933
; PRIOR FILING DATE: 2002-10-16
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 2300
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 951
; LENGTH: 302
; TYPE: DNA
; ORGANISM: Nicotiana tabacum
US-11-116-881A-951
```

```
Query Match          42.3%; Score 25.4; DB 11; Length 302;
Best Local Similarity 68.6%; Pred. No. 33;
Matches 35; Conservative 0; Mismatches 16; Indels 0; Gaps 0;
```

```
Qy      10 GCTCCTCCCGCTCATGGGTTACTTCTGCTCCAGATACGCGCCAGCTCCA 60
      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db      16 GCTGCTCCCGCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGCA 66
```

RESULT 14

```
US-11-116-881A-964
; Sequence 964, Application US/11116881A
; Publication No. US20060041949A1
; GENERAL INFORMATION:
; APPLICANT: Xu, Dongmei
```

```
; APPLICANT: Nielsen, Mark T.
; TITLE OF INVENTION: Nicotiana Nucleic Acid Molecules and Uses Thereof
; FILE REFERENCE: 07678/141014
; CURRENT APPLICATION NUMBER: US/11/116,881A
; CURRENT FILING DATE: 2005-04-27
; PRIOR APPLICATION NUMBER: 60/665,451
; PRIOR FILING DATE: 2005-03-24
; PRIOR APPLICATION NUMBER: 60/665,097
; PRIOR FILING DATE: 2005-03-24
; PRIOR APPLICATION NUMBER: 60/646,764
; PRIOR FILING DATE: 2005-01-25
; PRIOR APPLICATION NUMBER: 60/607,357
; PRIOR FILING DATE: 2004-09-03
; PRIOR APPLICATION NUMBER: 60/566,235
; PRIOR FILING DATE: 2004-04-29
; PRIOR APPLICATION NUMBER: 10/934,944
; PRIOR FILING DATE: 2004-09-03
; PRIOR APPLICATION NUMBER: 10/943,507
; PRIOR FILING DATE: 2004-09-17
; PRIOR APPLICATION NUMBER: 60/503,989
; PRIOR FILING DATE: 2003-09-18
; PRIOR APPLICATION NUMBER: 60/485,368
; PRIOR FILING DATE: 2003-07-08
; PRIOR APPLICATION NUMBER: 60/418,933
; PRIOR FILING DATE: 2002-10-16
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 2300
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 964
; LENGTH: 305
; TYPE: DNA
; ORGANISM: Nicotiana tabacum
US-11-116-881A-964
```

```
Query Match          42.3%; Score 25.4; DB 11; Length 305;
Best Local Similarity 68.6%; Pred. No. 33;
Matches 35; Conservative 0; Mismatches 16; Indels 0; Gaps 0;
```

```
QY      10 GCTCTCCCGCTCATGGGGTTACTTCTGCTCCAGATACTGCCCGAGCTCCA 60
      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db      16 GCTGCTCCCGCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGCA 66
```

RESULT 15

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US-11-116-881A-971
; Sequence 971, Application US/1116881A
; Publication No. US20060041949A1
; GENERAL INFORMATION:
; APPLICANT: Xu, Dongmei
; APPLICANT: Nielsen, Mark T.
; TITLE OF INVENTION: Nicotiana Nucleic Acid Molecules and Uses Thereof
; FILE REFERENCE: 07678/141014
; CURRENT APPLICATION NUMBER: US/11/116,881A
; CURRENT FILING DATE: 2005-04-27
; PRIOR APPLICATION NUMBER: 60/665,451
; PRIOR FILING DATE: 2005-03-24
; PRIOR APPLICATION NUMBER: 60/665,097
; PRIOR FILING DATE: 2005-03-24
; PRIOR APPLICATION NUMBER: 60/646,764
; PRIOR FILING DATE: 2005-01-25
; PRIOR APPLICATION NUMBER: 60/607,357
; PRIOR FILING DATE: 2004-09-03
; PRIOR APPLICATION NUMBER: 60/566,235
; PRIOR FILING DATE: 2004-04-29
; PRIOR APPLICATION NUMBER: 10/934,944
; PRIOR FILING DATE: 2004-09-03
; PRIOR APPLICATION NUMBER: 10/943,507
; PRIOR FILING DATE: 2004-09-17
; PRIOR APPLICATION NUMBER: 60/503,989
; PRIOR FILING DATE: 2003-09-18
; PRIOR APPLICATION NUMBER: 60/485,368
; PRIOR FILING DATE: 2003-07-08
; PRIOR APPLICATION NUMBER: 60/418,933
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; PRIOR FILING DATE: 2002-10-16
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 2300
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 971
; LENGTH: 306
; TYPE: DNA
; ORGANISM: Nicotiana tabacum
US-11-116-881A-971
```

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Query Match          42.3%; Score 25.4; DB 11; Length 306;
Best Local Similarity 68.6%; Pred. No. 33;
Matches 35; Conservative 0; Mismatches 16; Indels 0; Gaps 0;
```

```
QY      10 GCTCTCCCGCTCATGGGGTTACTTCTGCTCCAGATACTGCCCGAGCTCCA 60
      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db      16 GCTGCTCCCGCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGCA 66
```

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Job time : 321.3 secs
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GenCore version 5.1.7
Copyright (c) 1993 - 2006 Bioacceleration Ltd.

OM nucleic - nucleic search, using sw model

Run on: March 27, 2006, 13:49:57 ; Search time 371.4 Seconds
(without alignments)
1335.925 Million cell updates/sec

Title: US-10-057-136A-6
Perfect score: 60
Sequence: 1 GGGTCAACAGCTCTCTCCCGC.....CAGATACTCGCCCACTCCA 60

Scoring table: IDENTITY_NUC
Gapop 10_0 , Gapext 1.0

Searched: 9793542 seqs, 4134689005 residues

Total number of hits satisfying chosen parameters: 14089978

Minimum DB seq length: 0
#Maximum DB seq length: 500

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published Applications NA Main:
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Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
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2	38.2	63.7	120	8	US-10-635-211-3
3	38.2	63.7	162	8	US-10-635-211-8
4	36.6	61.0	60	5	US-10-057-136-11
5	36	60.0	60	5	US-10-057-136-10
6	31.8	53.0	60	5	US-10-057-136-5
7	30.2	50.3	60	5	US-10-057-136-7
8	30	50.0	60	5	US-10-057-136-8
9	30	50.0	60	5	US-10-057-136-9
10	29.6	49.3	93	7	US-10-471-607-4
11	29.6	49.3	157	7	US-10-471-607-6
12	29	48.3	60	5	US-10-057-136-12
13	28.8	48.0	490	7	US-10-424-599-89670
14	27.4	45.7	60	5	US-10-057-136-4
15	27.4	45.7	435	3	US-09-918-995-28868
16	27.2	45.3	281	10	US-11-097-143-19397
17	27	45.0	60	5	US-10-057-136-2
18	26.4	44.0	157	7	US-10-471-607-9
19	26.4	44.0	209	3	US-09-864-761-21470
20	26.4	44.0	426	3	US-09-864-761-4730
21	26.4	44.0	491	9	US-10-972-079-58492
22	26.2	43.7	407	3	US-09-960-352-14546
23	25.8	43.0	183	6	US-10-029-386-15440

24	25.6	42.7	60	5	US-10-057-136-14	Sequence 14, Appl	
c	25	25.6	42.7	453	5	US-10-194-163-434	Sequence 434, App
26	25.4	42.3	78	5	US-10-057-136-13	Sequence 13, Appl	
27	25.4	42.3	481	7	US-10-424-599-33392	Sequence 33392, A	
c	28	25.2	42.0	243	10	US-11-097-143-37091	Sequence 37091, A
c	29	25	41.7	201	8	US-10-719-993-29580	Sequence 29580, A
c	30	25	41.7	204	10	US-11-097-143-35965	Sequence 35965, A
c	31	24.8	41.3	201	8	US-10-741-600-17275	Sequence 17275, A
c	32	24.8	41.3	201	8	US-10-741-600-59824	Sequence 59824, A
c	33	24.8	41.3	446	3	US-09-918-995-31041	Sequence 31041, A
c	34	24.8	41.3	474	6	US-10-156-761-2467	Sequence 2467, Ap
c	35	24.8	41.3	479	3	US-09-918-995-31573	Sequence 31573, A
c	36	24.8	41.3	498	3	US-09-918-995-1344	Sequence 1344, Ap
c	37	24.6	41.0	385	9	US-10-779-543-10939	Sequence 10939, A
c	38	24.6	41.0	400	7	US-10-767-701-13206	Sequence 13206, A
c	39	24.4	40.7	201	8	US-10-741-600-17283	Sequence 17283, A
c	40	24.4	40.7	201	8	US-10-741-600-17306	Sequence 17306, A
c	41	24.4	40.7	201	8	US-10-741-600-59855	Sequence 59855, A
c	42	24.4	40.7	400	7	US-10-242-535A-10924	Sequence 10924, A
c	43	24.4	40.7	400	7	US-10-085-783A-10924	Sequence 10924, A
c	44	24.4	40.7	494	4	US-09-925-065A-896927	Sequence 896927, A
c	45	24.2	40.3	310	7	US-10-641-643-60	Sequence 60, Appl

ALIGNMENTS

RESULT 1
US-10-057-136-6
; Sequence 6, Application US/10057136
; Publication No. US20030021770A1
; GENERAL INFORMATION:
; APPLICANT: SCHLOM, JEFFREY
; APPLICANT: KANTOR, JUDITH
; APPLICANT: KUPF, DONALD
; APPLICANT: PANICALI, DENNIS
; APPLICANT: GRITZ, LINDA
; TITLE OF INVENTION: RECOMBINANT POX VIRUS FOR IMMUNIZATION AGAINST MUC1
; FILE REFERENCE: 700953/47113C
; CURRENT APPLICATION NUMBER: US/10/057,136
; CURRENT FILING DATE: 2002-01-25
; PRIOR APPLICATION NUMBER: 09/366,670
; PRIOR FILING DATE: 1999-08-03
; PRIOR APPLICATION NUMBER: PCT/US98/03693
; PRIOR FILING DATE: 1998-02-24
; PRIOR APPLICATION NUMBER: 60/038,253
; PRIOR FILING DATE: 1997-02-24
; NUMBER OF SEQ ID NOS: 20
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 6
; LENGTH: 60
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-057-136-6
Query Match 100.0%; Score 60; DB 5; Length 60;
Best Local Similarity 100.0%; Pred. No. 6.7e-12;
Matches 60; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Cy 1 GGGTCAACAGCTCTCTCCGCTCAGGGGTACTTCTGCTCCAGATACTCGCCCACTCCA 60
Db 1 GGGTCAACAGCTCTCTCCGCTCAGGGGTACTTCTGCTCCAGATACTCGCCCACTCCA 60
RESULT 2
US-10-635-211-3
; Sequence 3, Application US/10635211
; Publication No. US20050031649A1
; GENERAL INFORMATION:
; APPLICANT: Beijing HYDVAX Biotechnology Co. Ltd
; TITLE OF INVENTION: A recombinant fusion protein comprising BCG heat shock protein 65
; TITLE OF INVENTION: and the epitope of MUC1


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; FILE REFERENCE: FP03012US
; CURRENT APPLICATION NUMBER: US/10/635,211
; CURRENT FILING DATE: 2003-08-06
; NUMBER OF SEQ ID NOS: 9
; SOFTWARE: Patentin version 3.2
; SEQ ID NO 3
; LENGTH: 120
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (1)..(120)
US-10-635-211-3
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Query Match          63.7%; Score 38.2; DB 8; Length 120;
Best Local Similarity 78.0%; Pred. No. 0.00058;
Matches 46; Conservative 0; Mismatches 13; Indels 0; Gaps 0;
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```
QY      1 GGGTCAACAGCTCTCCCGCTCATGGGGTTACTTGTCTCCAGATACTGCCCACTCC 59
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Db       1 GGTTCACCGCTCCGCGGCTCACGGGTGTACCTGTCTCCGACACCCGCTCCGCTCC 59
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RESULT 3
US-10-635-211-8/c
; Sequence 8, Application US/10635211
; Publication No. US20050031649A1
; GENERAL INFORMATION:
; APPLICANT: Beijing HYDVAX Biotechnology Co. Ltd
; TITLE OF INVENTION: A recombinant fusion protein comprising BCG heat shock protein 65
; TITLE OF INVENTION: and the epitope of MUC1
; FILE REFERENCE: FP03012US
; CURRENT APPLICATION NUMBER: US/10/635,211
; CURRENT FILING DATE: 2003-08-06
; NUMBER OF SEQ ID NOS: 9
; SOFTWARE: Patentin version 3.2
; SEQ ID NO 8
; LENGTH: 162
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Primer
US-10-635-211-8
```

```
Query Match          63.7%; Score 38.2; DB 8; Length 162;
Best Local Similarity 78.0%; Pred. No. 0.00061;
Matches 46; Conservative 0; Mismatches 13; Indels 0; Gaps 0;
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```
QY      1 GGGTCAACAGCTCTCCCGCTCATGGGGTTACTTGTCTCCAGATACTGCCCACTCC 59
          |||||
Db       138 GGTTCACCGCTCCGCGGCTCACGGGTGTACCTGTCTCCGACACCCGCTCCGCTCC 80
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RESULT 4
US-10-057-136-11
; Sequence 11, Application US/10057136
; Publication No. US20030021770A1
; GENERAL INFORMATION:
; APPLICANT: SCHLOM, JEFFREY
; APPLICANT: KANTOR, JUDITH
; APPLICANT: KUFE, DONALD
; APPLICANT: PANICALI, DENNIS
; APPLICANT: GRITZ, LINDA
; TITLE OF INVENTION: RECOMBINANT POX VIRUS FOR IMMUNIZATION AGAINST MUC1
; TITLE OF INVENTION: TUMOR-ASSOCIATED ANTIGEN
; FILE REFERENCE: 700953/47113C
; CURRENT APPLICATION NUMBER: US/10/057,136
; CURRENT FILING DATE: 2002-01-25
; PRIOR APPLICATION NUMBER: 09/366,670
; PRIOR FILING DATE: 1999-08-03
; PRIOR APPLICATION NUMBER: PCT/US98/03693
; PRIOR FILING DATE: 1998-02-24
; PRIOR APPLICATION NUMBER: 60/038,253
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; PRIOR FILING DATE: 1997-02-24
; NUMBER OF SEQ ID NOS: 20
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 11
; LENGTH: 60
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-057-136-11
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```
Query Match          61.0%; Score 36.6; DB 5; Length 60;
Best Local Similarity 76.3%; Pred. No. 0.002;
Matches 45; Conservative 0; Mismatches 14; Indels 0; Gaps 0;
```

```
QY      1 GGGTCAACAGCTCTCCCGCTCATGGGGTTACTTGTCTCCAGATACTGCCCACTCC 59
          |||||
Db       1 GGTTCACCGCTCCGCGGCTCACGGAGTACGTCTGCACCCGACACCCGCTCCGCTCC 59
```

```
RESULT 5
US-10-057-136-10
; Sequence 10, Application US/10057136
; Publication No. US20030021770A1
; GENERAL INFORMATION:
; APPLICANT: SCHLOM, JEFFREY
; APPLICANT: KANTOR, JUDITH
; APPLICANT: KUFE, DONALD
; APPLICANT: PANICALI, DENNIS
; APPLICANT: GRITZ, LINDA
; TITLE OF INVENTION: RECOMBINANT POX VIRUS FOR IMMUNIZATION AGAINST MUC1
; TITLE OF INVENTION: TUMOR-ASSOCIATED ANTIGEN
; FILE REFERENCE: 700953/47113C
; CURRENT APPLICATION NUMBER: US/10/057,136
; CURRENT FILING DATE: 2002-01-25
; PRIOR APPLICATION NUMBER: 09/366,670
; PRIOR FILING DATE: 1999-08-03
; PRIOR APPLICATION NUMBER: PCT/US98/03693
; PRIOR FILING DATE: 1998-02-24
; PRIOR APPLICATION NUMBER: 60/038,253
; NUMBER OF SEQ ID NOS: 20
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 10
; LENGTH: 60
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-057-136-10
```

```
Query Match          60.0%; Score 36; DB 5; Length 60;
Best Local Similarity 75.0%; Pred. No. 0.0033;
Matches 45; Conservative 0; Mismatches 15; Indels 0; Gaps 0;
```

```
QY      1 GGGTCAACAGCTCTCCCGCTCATGGGGTTACTTGTCTCCAGATACTGCCCACTCCA 60
          |||||
Db       1 GGGTCAGCTGCCCTCCGCGCATGTGTGACCTCAGCTCTGTACACAAAGGCCAGCCCA 60
```

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RESULT 6
US-10-057-136-5
; Sequence 5, Application US/10057136
; Publication No. US20030021770A1
; GENERAL INFORMATION:
; APPLICANT: SCHLOM, JEFFREY
; APPLICANT: KANTOR, JUDITH
; APPLICANT: KUFE, DONALD
; APPLICANT: PANICALI, DENNIS
; APPLICANT: GRITZ, LINDA
; TITLE OF INVENTION: RECOMBINANT POX VIRUS FOR IMMUNIZATION AGAINST MUC1
; TITLE OF INVENTION: TUMOR-ASSOCIATED ANTIGEN
; FILE REFERENCE: 700953/47113C
; CURRENT APPLICATION NUMBER: US/10/057,136
; CURRENT FILING DATE: 2002-01-25
; PRIOR APPLICATION NUMBER: 09/366,670
; PRIOR FILING DATE: 1999-08-03
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; PRIOR APPLICATION NUMBER: PCT/US98/03693
; PRIOR FILING DATE: 1998-02-24
; PRIOR APPLICATION NUMBER: 60/038,253
; PRIOR FILING DATE: 1997-02-24
; NUMBER OF SEQ ID NOS: 20
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 5
; LENGTH: 60
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-057-136-5
```

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Query Match          53.0%; Score 31.8; DB 5; Length 60;
Best Local Similarity 71.2%; Pred. No. 0.11;
Matches 42; Conservative 0; Mismatches 17; Indels 0; Gaps 0;
```

```
QY      1 GGGTCAACAGCTCCTCCGCTCATGGGGTTACTTCTGCTCCAGATACTCGCCAGCTCC 59
          |||||
Db       1 GGATCCACCGCGCGCTGCGCACGAGTGAAGTCCGCGCCCGACACGCGCGCGCTCC 59
```

```
RESULT 7
US-10-057-136-7
; Sequence 7, Application US/10057136
; Publication No. US20030021770A1
; GENERAL INFORMATION:
; APPLICANT: SCHLOM, JEFFREY
; APPLICANT: KANTOR, JUDITH
; APPLICANT: KUFE, DONALD
; APPLICANT: PANICALI, DENNIS
; APPLICANT: GRITZ, LINDA
; TITLE OF INVENTION: TUMOR-ASSOCIATED ANTIGEN
; FILE REFERENCE: 700953/47113C
; CURRENT FILING DATE: 2002-01-25
; PRIOR APPLICATION NUMBER: 09/366,670
; PRIOR FILING DATE: 1999-08-03
; PRIOR APPLICATION NUMBER: PCT/US98/03693
; PRIOR FILING DATE: 1998-02-24
; PRIOR APPLICATION NUMBER: 60/038,253
; PRIOR FILING DATE: 1997-02-24
; NUMBER OF SEQ ID NOS: 20
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 7
; LENGTH: 60
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-057-136-7
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Query Match          50.3%; Score 30.2; DB 5; Length 60;
Best Local Similarity 69.5%; Pred. No. 0.41;
Matches 41; Conservative 0; Mismatches 18; Indels 0; Gaps 0;
```

```
QY      1 GGGTCAACAGCTCCTCCGCTCATGGGGTTACTTCTGCTCCAGATACTCGCCAGCTCC 59
          |||||
Db       1 GGTTCACGCGCGCGCTGCTCAGGTGTAAATCCGCGCCGGATACGACGCGCGCC 59
```

```
RESULT 8
US-10-057-136-8
; Sequence 8, Application US/10057136
; Publication No. US20030021770A1
; GENERAL INFORMATION:
; APPLICANT: SCHLOM, JEFFREY
; APPLICANT: KANTOR, JUDITH
; APPLICANT: KUFE, DONALD
; APPLICANT: PANICALI, DENNIS
; APPLICANT: GRITZ, LINDA
; TITLE OF INVENTION: RECOMBINANT POX VIRUS FOR IMMUNIZATION AGAINST MUC1
; FILE REFERENCE: 700953/47113C
; CURRENT APPLICATION NUMBER: US/10/057,136
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```
; CURRENT FILING DATE: 2002-01-25
; PRIOR APPLICATION NUMBER: 09/366,670
; PRIOR FILING DATE: 1999-08-03
; PRIOR APPLICATION NUMBER: PCT/US98/03693
; PRIOR FILING DATE: 1998-02-24
; PRIOR APPLICATION NUMBER: 60/038,253
; PRIOR FILING DATE: 1997-02-24
; NUMBER OF SEQ ID NOS: 20
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 8
; LENGTH: 60
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-057-136-8
```

```
Query Match          50.0%; Score 30; DB 5; Length 60;
Best Local Similarity 72.2%; Pred. No. 0.49;
Matches 39; Conservative 0; Mismatches 15; Indels 0; Gaps 0;
```

```
QY      7 ACAGCTCTCCCGCTCATGGGGTTACTTCTGCTCCAGATACTCGCCAGCTCCA 60
          |||||
Db       7 ACCGACCGCGCGCGACACGCGGTCAAGCGCGCCAGACACTGCACTGCGCCA 60
```

```
RESULT 9
US-10-057-136-9
; Sequence 9, Application US/10057136
; Publication No. US20030021770A1
; GENERAL INFORMATION:
; APPLICANT: SCHLOM, JEFFREY
; APPLICANT: KANTOR, JUDITH
; APPLICANT: KUFE, DONALD
; APPLICANT: PANICALI, DENNIS
; APPLICANT: GRITZ, LINDA
; TITLE OF INVENTION: RECOMBINANT POX VIRUS FOR IMMUNIZATION AGAINST MUC1
; FILE REFERENCE: 700953/47113C
; CURRENT FILING DATE: 2002-01-25
; PRIOR APPLICATION NUMBER: US/10/057,136
; CURRENT FILING DATE: 2002-01-25
; PRIOR APPLICATION NUMBER: 09/366,670
; PRIOR FILING DATE: 1999-08-03
; PRIOR APPLICATION NUMBER: PCT/US98/03693
; PRIOR FILING DATE: 1998-02-24
; PRIOR APPLICATION NUMBER: 60/038,253
; PRIOR FILING DATE: 1997-02-24
; NUMBER OF SEQ ID NOS: 20
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 9
; LENGTH: 60
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-057-136-9
```

```
Query Match          50.0%; Score 30; DB 5; Length 60;
Best Local Similarity 72.2%; Pred. No. 0.49;
Matches 39; Conservative 0; Mismatches 15; Indels 0; Gaps 0;
```

```
QY      7 ACAGCTCTCCCGCTCATGGGGTTACTTCTGCTCCAGATACTCGCCAGCTCCA 60
          |||||
Db       7 ACCGCTCACCTGACACAGCGGGGTCAAGCGCGCCAGACACTGCACTGCGCCA 60
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RESULT 10
US-10-471-607-4/c
; Sequence 4, Application US/10471607
; Publication No. US20040115740A1
; GENERAL INFORMATION:
; APPLICANT: The Victoria University of Manchester
; APPLICANT: Benson, Roderick
; TITLE OF INVENTION: Intracellular analysis.
; FILE REFERENCE: P088857PWO
; CURRENT APPLICATION NUMBER: US/10/471,607
; CURRENT FILING DATE: 2003-09-24
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; PRIOR APPLICATION NUMBER: GB 0108165.2
; PRIOR FILING DATE: 3001-03-21
; NUMBER OF SEQ ID NOS: 16
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 4
; LENGTH: 93
; TYPE: DNA
; ORGANISM: Artificial
; FEATURE:
; OTHER INFORMATION: Artificial epitope construct
US-10-471-607-4

Query Match          49.3%; Score 29.6; DB 7; Length 93;
Best Local Similarity 79.5%; Pred. No. 0.73;
Matches 35; Conservative 0; Mismatches 9; Indels 0; Gaps 0;

QY 1 GGGTCAACAGCTCTCCCGCTCATGGGGTTACTTGTCTCCAGA 44
    ||||||| ||||| ||||| ||||| ||||| ||||| |||||
DB 57 GGCTCAACAGCCCCCCAGCTCATGTGTCACTCAGCTCCCGA 14

RESULT 11
US-10-471-607-6
; Sequence 6, Application US/10471607
; Publication No. US20040115740A1
; GENERAL INFORMATION:
; APPLICANT: The Victoria University of Manchester
; APPLICANT: Benson, Roderick
; TITLE OF INVENTION: Intracellular analysis.
; FILE REFERENCE: P088857PMO
; CURRENT APPLICATION NUMBER: US/10/471,607
; CURRENT FILING DATE: 2003-09-24
; PRIOR APPLICATION NUMBER: GB 0108165.2
; PRIOR FILING DATE: 3001-03-21
; NUMBER OF SEQ ID NOS: 16
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 6
; LENGTH: 157
; TYPE: DNA
; ORGANISM: Artificial
; FEATURE:
; OTHER INFORMATION: Artificial epitope construct
US-10-471-607-6

Query Match          49.3%; Score 29.6; DB 7; Length 157;
Best Local Similarity 79.5%; Pred. No. 0.79;
Matches 35; Conservative 0; Mismatches 9; Indels 0; Gaps 0;

QY 1 GGGTCAACAGCTCTCCCGCTCATGGGGTTACTTGTCTCCAGA 44
    ||||||| ||||| ||||| ||||| ||||| ||||| |||||
DB 101 GGCTCAACAGCCCCCCAGCTCATGTGTCACTCAGCTCCCGA 144

RESULT 12
US-10-057-136-12
; Sequence 12, Application US/10057136
; Publication No. US20030021770A1
; GENERAL INFORMATION:
; APPLICANT: SCHLOM, JEFFREY
; APPLICANT: KANTOR, JUDITH
; APPLICANT: KUFE, DONALD
; APPLICANT: PANICALI, DENNIS
; APPLICANT: GRITZ, LINDA
; TITLE OF INVENTION: RECOMBINANT POX VIRUS FOR IMMUNIZATION AGAINST MUC1
; FILE REFERENCE: 700953/47113C
; CURRENT APPLICATION NUMBER: US/10/057,136
; CURRENT FILING DATE: 2002-01-25
; PRIOR APPLICATION NUMBER: 09/366,670
; PRIOR FILING DATE: 1999-08-03
; PRIOR APPLICATION NUMBER: PCT/US98/03693
; PRIOR FILING DATE: 1998-02-24
; NUMBER OF SEQ ID NOS: 253
; SOFTWARE: PatentIn Ver. 2.1
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; PRIOR FILING DATE: 1997-02-24
; NUMBER OF SEQ ID NOS: 20
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 12
; LENGTH: 60
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-057-136-12

Query Match          48.3%; Score 29; DB 5; Length 60;
Best Local Similarity 71.7%; Pred. No. 1.1;
Matches 38; Conservative 0; Mismatches 15; Indels 0; Gaps 0;

QY 7 ACAGCTCTCCCGCTCATGGGGTTACTTCTGCTCCAGATACGCGCCAGCTCC 59
    ||||||| ||||| ||||| ||||| ||||| ||||| |||||
DB 7 ACAGCGCCACCGCACATGGCGTCAAGAGCGCTCCGATACGAGACCGCGCC 59

RESULT 13
US-10-424-599-89670/c
; Sequence 89670, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa Thomas J
; APPLICANT: Kovalic David K
; APPLICANT: Zhou Yihua
; APPLICANT: Cao Yongwei
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53223)B
; CURRENT APPLICATION NUMBER: US/10/424,599
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 89670
; LENGTH: 490
; TYPE: DNA
; ORGANISM: Glycine max
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT3847_51983C.1
US-10-424-599-89670

Query Match          48.0%; Score 28.8; DB 7; Length 490;
Best Local Similarity 69.6%; Pred. No. 1.8;
Matches 39; Conservative 0; Mismatches 17; Indels 0; Gaps 0;

QY 5 CAACAGCTCTCCCGCTCATGGGGTTACTTCTGCTCCAGATACGCGCCAGCTCCA 60
    ||||||| ||||| ||||| ||||| ||||| ||||| |||||
DB 273 CAGCGGCTTCTTGGCTCCAGCGGCTTCTTGGCTCCAGCGGCTTGTGCTCGGCTCCA 218

RESULT 14
US-10-057-136-4
; Sequence 4, Application US/10057136
; Publication No. US20030021770A1
; GENERAL INFORMATION:
; APPLICANT: SCHLOM, JEFFREY
; APPLICANT: KANTOR, JUDITH
; APPLICANT: KUFE, DONALD
; APPLICANT: PANICALI, DENNIS
; APPLICANT: GRITZ, LINDA
; TITLE OF INVENTION: RECOMBINANT POX VIRUS FOR IMMUNIZATION AGAINST MUC1
; FILE REFERENCE: 700953/47113C
; CURRENT APPLICATION NUMBER: US/10/057,136
; CURRENT FILING DATE: 2002-01-25
; PRIOR APPLICATION NUMBER: 09/366,670
; PRIOR FILING DATE: 1999-08-03
; PRIOR APPLICATION NUMBER: PCT/US98/03693
; PRIOR FILING DATE: 1998-02-24
; PRIOR APPLICATION NUMBER: 60/038,253
; PRIOR FILING DATE: 1997-02-24
; NUMBER OF SEQ ID NOS: 20
; SOFTWARE: PatentIn Ver. 2.1
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OM nucleic - nucleic search, using sw model

Run on: March 27, 2006, 13:48:29 ; Search time 55.5 Seconds
(without alignments)
1921.688 Million cell updates/sec

Title: US-10-057-136A-6
Perfect score: 60
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Gapop 10.0 , Gapext 1.0

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Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	30.2	50.3	68	3	US-09-304-967-53 Sequence 53, Appl
2	29.4	49.0	78	3	US-09-304-967-96 Sequence 96, Appl
3	29	48.3	78	3	US-09-304-967-102 Sequence 102, Appl
4	28.8	48.0	68	3	US-09-304-967-57 Sequence 57, Appl
5	28.2	47.0	78	3	US-09-304-967-98 Sequence 98, Appl
6	28	46.7	68	3	US-09-304-967-51 Sequence 51, Appl
7	28	46.7	68	3	US-09-304-967-55 Sequence 55, Appl
8	28	46.7	78	3	US-09-304-967-94 Sequence 94, Appl
9	28	46.7	78	3	US-09-304-967-100 Sequence 100, Appl
10	28	46.7	83	3	US-09-304-967-79 Sequence 79, Appl
11	27.6	46.0	303	3	US-09-489-039A-2070 Sequence 2070, Ap
12	27.4	45.7	83	3	US-09-304-967-75 Sequence 75, Appl
13	27.2	45.3	78	3	US-09-304-967-92 Sequence 92, Appl
14	27	45.0	48	3	US-09-304-967-47 Sequence 47, Appl
15	27	45.0	48	3	US-09-304-967-67 Sequence 67, Appl
16	27	45.0	48	3	US-09-304-967-90 Sequence 90, Appl
17	27	45.0	68	3	US-09-304-967-49 Sequence 49, Appl
18	27	45.0	83	3	US-09-304-967-69 Sequence 69, Appl
19	27	45.0	83	3	US-09-304-967-71 Sequence 71, Appl
20	27	45.0	83	3	US-09-304-967-73 Sequence 73, Appl
21	27	45.0	83	3	US-09-304-967-77 Sequence 77, Appl
22	25.6	42.7	205	3	US-09-513-999C-13924 Sequence 13924, A
23	25.6	42.7	453	3	US-09-221-017B-434 Sequence 434, Appl
24	25.2	42.0	418	3	US-09-270-767-25147 Sequence 25147, A

25	25.2	42.0	486	3	US-09-270-767-9852 Sequence 9852, Ap
26	24.6	41.0	149	3	US-09-270-767-29740 Sequence 29740, A
27	24.6	41.0	376	3	US-09-270-767-13719 Sequence 13719, A
28	24.2	40.3	60	3	US-09-475-947A-246 Sequence 246, Appl
29	24.2	40.3	310	3	US-09-023-655-60 Sequence 60, Appl
30	23.8	39.7	249	3	US-09-270-767-12518 Sequence 12518, A
31	23.6	39.3	264	3	US-09-270-767-28005 Sequence 28005, A
32	23.6	39.3	436	3	US-09-621-976-7995 Sequence 7995, Ap
33	23.6	39.3	460	3	US-09-270-767-12264 Sequence 12264, A
34	23.4	39.0	436	3	US-09-621-976-10122 Sequence 10122, A
35	23.4	39.0	440	3	US-09-270-767-8776 Sequence 8776, Ap
36	23.4	39.0	440	3	US-09-270-767-24058 Sequence 24058, A
37	23.4	39.0	468	3	US-09-915-060A-5 Sequence 5, Appl1
38	23	38.3	225	2	US-07-609-716-40 Sequence 40, Appl1
39	23	38.3	225	3	US-08-475-411A-40 Sequence 40, Appl1
40	23	38.3	225	3	US-08-478-029A-40 Sequence 40, Appl1
41	22.6	37.7	193	3	US-09-866-108A-15678 Sequence 15678, A
42	22.6	37.7	500	3	US-09-866-108A-15722 Sequence 15722, A
43	22.4	37.3	144	2	US-08-209-747-13 Sequence 13, Appl1
44	22.4	37.3	144	2	US-08-458-298-13 Sequence 13, Appl1
45	22.4	37.3	221	3	US-09-902-540-5551 Sequence 5551, Ap

ALIGNMENTS

RESULT 1

US-09-304-967-53
; Sequence 53, Application US/09304967
; Patent No. 6884623
; GENERAL INFORMATION:
; APPLICANT: Lomonosoff, George P.
; APPLICANT: Johnson, John E.
; APPLICANT: Bendig, Mary
; APPLICANT: Jones, Tim
; APPLICANT: Longstaff, Marian
; TITLE OF INVENTION: Modified Plant Viruses as Vectors of Heterologous
; TITLE OF INVENTION: Peptides
; FILE REFERENCE: DOW-04646
; CURRENT APPLICATION NUMBER: US/09/304,967
; PRIOR FILING DATE: 1999-05-05
; PRIOR APPLICATION NUMBER: 08/471,048
; PRIOR FILING DATE: 1995-06-06
; PRIOR APPLICATION NUMBER: 08/612,858
; PRIOR FILING DATE: 1996-03-12
; PRIOR APPLICATION NUMBER: 08/137,032
; PRIOR FILING DATE: 1993-03-18
; PRIOR APPLICATION NUMBER: PCT/GB20/00589
; PRIOR FILING DATE: 1992-04-02
; NUMBER OF SEQ ID NOS: 123
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 53
; LENGTH: 68
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
US-09-304-967-53

Query Match 50.3%; Score 30.2; DB 3; Length 68;
Best Local Similarity 81.4%; Pred. No. 0.38;
Matches 35; Conservative 0; Mismatches 8; Indels 0; Gaps 0;

QY 17 CCCTCATGGGGTTACTTCTGCTCCAGATATCTGCCAGCTCC 59
Db 4 CCTTAAGGGTGTACTTCTGCTCTGATAGTACCTGCTCC 46

RESULT 2
US-09-304-967-96
; Sequence 96, Application US/09304967
; Patent No. 6884623
; GENERAL INFORMATION:

```
; APPLICANT: Lomonosoff, George P.
; APPLICANT: Johnson, John E.
; APPLICANT: Bendig, Mary
; APPLICANT: Jones, Tim
; APPLICANT: Longstaff, Marian
; TITLE OF INVENTION: Modified Plant Viruses as Vectors of Heterologous
; FILE REFERENCE: DOM-04646
; CURRENT APPLICATION NUMBER: US/09/304,967
; PRIOR FILING DATE: 1999-05-05
; PRIOR APPLICATION NUMBER: 08/471,048
; PRIOR FILING DATE: 1995-06-06
; PRIOR APPLICATION NUMBER: 08/612,858
; PRIOR FILING DATE: 1996-03-12
; PRIOR APPLICATION NUMBER: 08/137,032
; PRIOR FILING DATE: 1993-03-18
; PRIOR APPLICATION NUMBER: PCT/GB20/00589
; NUMBER OF SEQ ID NOS: 123
; SOFTWARE: Patentln Ver. 2.0
; SEQ ID NO 96
; LENGTH: 78
; TYPE: DNA
; ORGANISM: Red clover necrotic mosaic virus
US-09-304-967-96
```

```
Query Match          49.0%; Score 29.4; DB 3; Length 78;
Best Local Similarity 84.6%; Pred. No. 0.73;
Matches 33; Conservative 0; Mismatches 6; Indels 0; Gaps 0;
```

```
OY      21 TCATGGGGTACTTCTGCTCCAGATACCTGCCAGCTCC 59
      |||||
Db      13 TGATGGGTACTTCTGCTCTCTGATAGACCTGCTCC 51
```

```
RESULT 3
US-09-304-967-102
; Sequence 102, Application US/09304967
; Patent No. 6884623
; GENERAL INFORMATION:
; APPLICANT: Lomonosoff, George P.
; APPLICANT: Johnson, John E.
; APPLICANT: Bendig, Mary
; APPLICANT: Jones, Tim
; APPLICANT: Longstaff, Marian
; TITLE OF INVENTION: Modified Plant Viruses as Vectors of Heterologous
; FILE REFERENCE: DOM-04646
; CURRENT APPLICATION NUMBER: US/09/304,967
; PRIOR FILING DATE: 1999-05-05
; PRIOR APPLICATION NUMBER: 08/471,048
; PRIOR FILING DATE: 1995-06-06
; PRIOR APPLICATION NUMBER: 08/612,858
; PRIOR FILING DATE: 1996-03-12
; PRIOR APPLICATION NUMBER: 08/137,032
; PRIOR FILING DATE: 1993-03-18
; PRIOR APPLICATION NUMBER: PCT/GB20/00589
; NUMBER OF SEQ ID NOS: 123
; SOFTWARE: Patentln Ver. 2.0
; SEQ ID NO 102
; LENGTH: 78
; TYPE: DNA
; ORGANISM: Red clover necrotic mosaic virus
US-09-304-967-102
```

```
Query Match          48.3%; Score 29; DB 3; Length 78;
Best Local Similarity 77.8%; Pred. No. 1;
Matches 35; Conservative 0; Mismatches 10; Indels 0; Gaps 0;
```

```
OY      15 TCCCGCTCATGGGTACTTCTGCTCCAGATACCTGCCAGCTCC 59
      |||||
Db      16 TCTCGTGGGGGTACTTCTGCTCTGATAGACCTGCTCC 60
```

```
RESULT 4
US-09-304-967-57
; Sequence 57, Application US/09304967
; Patent No. 6884623
; GENERAL INFORMATION:
; APPLICANT: Lomonosoff, George P.
; APPLICANT: Johnson, John E.
; APPLICANT: Bendig, Mary
; APPLICANT: Jones, Tim
; APPLICANT: Longstaff, Marian
; TITLE OF INVENTION: Modified Plant Viruses as Vectors of Heterologous
; FILE REFERENCE: DOM-04646
; CURRENT APPLICATION NUMBER: US/09/304,967
; PRIOR FILING DATE: 1999-05-05
; PRIOR APPLICATION NUMBER: 08/471,048
; PRIOR FILING DATE: 1995-06-06
; PRIOR APPLICATION NUMBER: 08/612,858
; PRIOR FILING DATE: 1996-03-12
; PRIOR APPLICATION NUMBER: 08/137,032
; PRIOR FILING DATE: 1993-03-18
; PRIOR APPLICATION NUMBER: PCT/GB20/00589
; NUMBER OF SEQ ID NOS: 123
; SOFTWARE: Patentln Ver. 2.0
; SEQ ID NO 57
; LENGTH: 68
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
US-09-304-967-57
```

```
Query Match          48.0%; Score 28.8; DB 3; Length 68;
Best Local Similarity 82.5%; Pred. No. 1.1;
Matches 33; Conservative 0; Mismatches 7; Indels 0; Gaps 0;
```

```
OY      20 CTATGGGGTACTTCTGCTCCAGATACCTGCCAGCTCC 59
      |||||
Db      13 CTGCTGGGTACTTCTGCTCTCTGATAGACCTGCTCC 52
```

```
RESULT 5
US-09-304-967-98
; Sequence 98, Application US/09304967
; Patent No. 6884623
; GENERAL INFORMATION:
; APPLICANT: Lomonosoff, George P.
; APPLICANT: Johnson, John E.
; APPLICANT: Bendig, Mary
; APPLICANT: Jones, Tim
; APPLICANT: Longstaff, Marian
; TITLE OF INVENTION: Modified Plant Viruses as Vectors of Heterologous
; FILE REFERENCE: DOM-04646
; CURRENT APPLICATION NUMBER: US/09/304,967
; PRIOR FILING DATE: 1999-05-05
; PRIOR APPLICATION NUMBER: 08/471,048
; PRIOR FILING DATE: 1995-06-06
; PRIOR APPLICATION NUMBER: 08/612,858
; PRIOR FILING DATE: 1996-03-12
; PRIOR APPLICATION NUMBER: 08/137,032
; PRIOR FILING DATE: 1993-03-18
; PRIOR APPLICATION NUMBER: PCT/GB20/00589
; NUMBER OF SEQ ID NOS: 123
; SOFTWARE: Patentln Ver. 2.0
; SEQ ID NO 98
; LENGTH: 78
; TYPE: DNA
; ORGANISM: Red clover necrotic mosaic virus
```



```

; TITLE OF INVENTION: Peptides
; FILE REFERENCE: DOM-04646
; CURRENT APPLICATION NUMBER: US/09/304,967
; CURRENT FILING DATE: 1999-05-05
; PRIOR APPLICATION NUMBER: 08/471,048
; PRIOR FILING DATE: 1995-06-06
; PRIOR APPLICATION NUMBER: 08/612,858
; PRIOR FILING DATE: 1996-03-12
; PRIOR APPLICATION NUMBER: 08/137,032
; PRIOR FILING DATE: 1993-03-18
; PRIOR APPLICATION NUMBER: PCT/GB20/00589
; PRIOR FILING DATE: 1992-04-02
; NUMBER OF SEQ ID NOS: 123
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 100
; LENGTH: 78
; TYPE: DNA
; ORGANISM: Red clover necrotic mosaic virus
US-09-304-967-100

```

Query Match	46.7%	Score 28;	DB 3;	Length 78;
Best Local Similarity	86.1%	Pred. No. 2.2;		
Matches 31; Conservative	0;	Mismatches 5;	Indels 0;	Gaps 0;

Oy 24 TGGGTTACTTCTGCCTCAGATACCTCGCCAGCTTC 59
||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
D6 22 TGGTATTACTTCTGCCTCCTGATACTAAGACCTGCTCC 57

RESULT 10
US-09-304-967-79

```

; GENERAL INFORMATION:
; APPLICANT: Lomonosoff, George P.
; APPLICANT: Johnson, John E.
; APPLICANT: Bendig, Mary
; APPLICANT: Jones, Tim
; APPLICANT: Longstaff, Marian
; TITLE OF INVENTION: Modified Plant Viruses as Vectors of Heterologous
; TITLE OF INVENTION: Peptides
; FILE REFERENCE: DOW-04646
; CURRENT APPLICATION NUMBER: US/09/304,967
; CURRENT FILING DATE: 1999-05-05
; PRIOR APPLICATION NUMBER: 08/471,048
; PRIOR FILING DATE: 1995-06-06
; PRIOR APPLICATION NUMBER: 08/612,858
; PRIOR FILING DATE: 1996-03-12
; PRIOR APPLICATION NUMBER: 08/137,032
; PRIOR FILING DATE: 1993-03-18
; PRIOR APPLICATION NUMBER: PCT/GB20/00589
; PRIOR FILING DATE: 1992-04-02
; NUMBER OF SEQ ID NOS: 123
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 79
; LENGTH: 83
; TYPE: DNA
; ORGANISM: Lucerne transient streak virus
US-09-304-967-79

```

Query Match	46.7%	Score 28;	DB 3;	Length 83;
Best Local Similarity	86.1%	Pred. No. 2.2;		
Matches 31; Conservative	0;	Mismatches 5;	Indels 0;	Gaps 0;

Oy	24	TGGGGTACTCTTGCTCCAGATACTGCGCAGCTCC	59
Db	24	TGGTTACTCTGCTCCGATTA CTAGA C T G C T C C	59

RESULT 11
US-09-489-039A-2070/c
; Sequence 2070, Application US/09489039A
; Patent No. 6610836

```

; GENERAL INFORMATION:
; APPLICANT: Gary Breton et. al
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO KLEBSIELLA
; TITLE OF INVENTION: PNEUMONIAE FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 2709.2004001
; CURRENT APPLICATION NUMBER: US/09/489,039A
; CURRENT FILING DATE: 2000-01-27
; PRIOR APPLICATION NUMBER: US 60/117,747
; PRIOR FILING DATE: 1999-01-29
; NUMBER OF SEQ ID NOS: 14342
; SEQ ID NO 2070
; LENGTH: 303
; TYPE: DNA
; ORGANISM: Klebsiella pneumoniae
US-09-489-039A-2070

```

Query Match	46.0%	Score 27.6;	DB 3;	Length 303;
Best Local Similarity	67.2%	Pred. No. 4;		
Matches 39; Conservative	0;	Mismatches 19;	Indels 0;	Gaps 0;

Qy 1 GGGTCAACAGCTCTCTCCCGCTCATGGGGTACTTCTGCTCCAGATACTCGCCACGCTC 58
 Db 157 GGGTCACTGCGACTGCGAGCGCGCTGGCGGATTTTCTTCTCAACATCCTCACCCAGATC 100

RESULT 12
US-09-304-967-75
! Sequence 75, Application US/09304967

```

; GENERAL INFORMATION:
; APPLICANT: Lomonosoff, George P.
; APPLICANT: Johnson, John B.
; APPLICANT: Bendig, Mary
; APPLICANT: Jones, Tim
; APPLICANT: Longstaff, Marian
; TITLE OF INVENTION: Modified Plant Viruses as Vectors of Heterologous
; TITLE OF INVENTION: Peptides
; FILE REFERENCE: DOW-04646
; CURRENT APPLICATION NUMBER: US/09/304,967
; CURRENT FILING DATE: 1999-05-05
; PRIOR APPLICATION NUMBER: 08/471,048
; PRIOR FILING DATE: 1995-06-06
; PRIOR APPLICATION NUMBER: 08/612,858
; PRIOR FILING DATE: 1996-03-12
; PRIOR APPLICATION NUMBER: 08/137,032
; PRIOR FILING DATE: 1993-03-18
; PRIOR APPLICATION NUMBER: PCT/GB20/00589
; PRIOR FILING DATE: 1992-04-02
; NUMBER OF SEQ ID NOS: 123
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 75
; LENGTH: 83
; TYPE: DNA
; ORGANISM: Lucerne transient streak virus
US-09-304-967-75

```

Query Match	45.7%	Score 27.4;	DB 3;	Length 83;
Best Local Similarity	83.8%	Pred. No. 3.5;		
Matches 31; Conservative	0;	Mismatches 6;	Indels 0;	Gaps 0;

Qy 23 ATGGGTTACTTCTGCTCCAGATAC TGCCCGCCAGCTCC 59

Dd 17 ACGGTCTACTTCTGCTCCGATACTA GACTGCTCC 53

RESULT 13
US-09-304-967-92
: Sequence 92, Application US/09304967

GENERAL INFORMATION:
APPLICANT: Lomonosoff, George P.
APPLICANT: Johnson, John E.
APPLICANT: Bendig, Mary

```

1  APPLICANT: Jones, Tim
2  APPLICANT: Longstaff, Marian
3  TITLE OF INVENTION: Modified Plant Viruses as Vectors of Heterologous
4  TITLE OF INVENTION: Peptides
5  FILE REFERENCE: DOM-04646
6  CURRENT APPLICATION NUMBER: US/09/304,967
7  CURRENT FILING DATE: 1999-05-05
8  PRIOR APPLICATION NUMBER: 08/471,048
9  PRIOR FILING DATE: 1995-06-06
10 PRIOR APPLICATION NUMBER: 08/612,858
11 PRIOR FILING DATE: 1996-03-12
12 PRIOR APPLICATION NUMBER: 08/137,032
13 PRIOR FILING DATE: 1993-03-18
14 PRIOR APPLICATION NUMBER: PCT/GB20/00589
15 PRIOR FILING DATE: 1992-04-02
16 NUMBER OF SEQ ID NOS: 123
17 SOFTWARE: PatentIn Ver. 2.0
18 SEQ ID NO 92
19 LENGTH: 78
20 TYPE: DNA
21 ORGANISM: Red clover necrotic mosaic virus
22 US-09-304-967-92

```

Query Match	45.3%;	Score 27.2;	DB 3;	Length 78;
Best Local Similarity	80.0%;	Pred. No. 4.1;		
Matches 32;	Conservative 0;	Mismatches 8;	Indels 0;	Gaps 0;

```
Oy      20 CTGATGGGGTACTCTTGCTCCAGATACTGCCCACTCC   59
          ||| | | | | | | | | | | | | | | | | |
Db       6 CTGTAGGTGTTACTTCTGCTCCTGATACTAGACCTGCTCC   45
```

RESULT 14
US-09-304-967-47

```

; Sequence 47, Application US/09304967
; Patent No. 6884623
; GENERAL INFORMATION:
; APPLICANT: Lomonosoff, George P.
; APPLICANT: Johnson, John E.
; APPLICANT: Bendig, Mary
; APPLICANT: Jones, Tim
; APPLICANT: Longstaff, Marian
; TITLE OF INVENTION: Modified Plant Viruses as Vectors of Heterologous
; TITLE OF INVENTION: Peptides
; FILE REFERENCE: DOW-04646
; CURRENT APPLICATION NUMBER: US/09/304,967
; CURRENT FILING DATE: 1999-05-05
; PRIOR APPLICATION NUMBER: 08/471,048
; PRIOR FILING DATE: 1995-06-06
; PRIOR APPLICATION NUMBER: 08/612,858
; PRIOR FILING DATE: 1996-03-12
; PRIOR APPLICATION NUMBER: 08/137,032
; PRIOR FILING DATE: 1993-03-18
; PRIOR APPLICATION NUMBER: PCT/GB20/00589
; PRIOR FILING DATE: 1992-04-02
; NUMBER OF SEQ ID NOS: 123
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 47
; LENGTH: 48
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-304-967-47

```

Query Match	45.0%;	Score 27;	DB 3;	Length 48;
Best Local Similarity	85.7%;	Pred. No. 4.3;		
Matches 30;	Conservative 0;	Mismatches 5;	Indels 0;	Gaps 0;

Dy 25 GGGGTACTTCTGCTCCAGATACCTGCCCAAGCTCC 59
|||
Db 1 GGTTACTTCTGCTCCTGATACTAGAACCCTCTCC 35

RESULT 15

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US-09-304-967-67
; Sequence 67, Application US/09304967
; Patent No: 6884623
; GENERAL INFORMATION:
; APPLICANT: Lomonosoff, George P.
; APPLICANT: Johnson, John E.
; APPLICANT: Bendig, Mary
; APPLICANT: Jones, Tim
; APPLICANT: Longstaff, Marian
; TITLE OF INVENTION: Modified Plant Viruses as Vectors of Heterologous
; TITLE OF INVENTION: Peptides
; FILE REFERENCE: DOM-04646
; CURRENT APPLICATION NUMBER: US/09/304,967
; CURRENT FILING DATE: 1999-05-05
; PRIOR APPLICATION NUMBER: 08/471,048
; PRIOR FILING DATE: 1995-06-06
; PRIOR APPLICATION NUMBER: 08/612,858
; PRIOR FILING DATE: 1996-03-12
; PRIOR APPLICATION NUMBER: 08/137,032
; PRIOR FILING DATE: 1993-03-18
; PRIOR APPLICATION NUMBER: PCT/GB20/00589
; PRIOR FILING DATE: 1992-04-02
; NUMBER OF SEQ ID NOS: 123
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 67
; LENGTH: 48
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-304-967-67

```

Query Match	45.0%	Score 27;	DB 3;	Length 48;
Best Local Similarity	85.7%	Pred. No. 4.3;		
Matches 30; Conservative	0;	Mismatches 5;	Indels 0;	Gaps 0

Qy 25 GGGGTTACTTCTGCTCCAGATACTCGCCAGCTCC 59
|||
Db 1 GGTGTTACTTCTGCTCCGATACCTAGACCTGCTCC 35

Search completed: March 27, 2006, 16:33:31
Job time : 56.5 secs

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OM nucleic - nucleic search, using bw model

Run on: March 27, 2006, 13:53:26 ; Search time 321.3 Seconds
(without alignments)
744.399 Million cell updates/sec

Title: US-10-057-136A-5

Perfect score: 60
Sequence: 1 GGATCCACCGCGCGCCTGC.....CCGACACGCGCGCCTCCC 60

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 9258654 seqs, 1993127192 residues

Total number of hits satisfying chosen parameters: 14431810

Minimum DB seq length: 0
Maximum DB seq length: 500

Post-processing: Minimum Match 0%
Maximum Match 100%
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Database : Published Applications NA New:*

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3:	/SIDS5/ptodata/2/pubpna/US07_NEW_PUB.seq:*
4:	/SIDS5/ptodata/2/pubpna/PCT_NEW_PUB.seq:*
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12:	/SIDS5/ptodata/2/pubpna/US11_NEW_PUB.seq:*
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14:	/SIDS5/ptodata/2/pubpna/US11_NEW_PUB.seq:*
15:	/SIDS5/ptodata/2/pubpna/US60_NEW_PUB.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB	ID	Description
1	35	58.3	328	9	US-10-517-696-41	Sequence 41, Appl
2	33.6	56.0	468	8	US-10-401-386B-43	Sequence 43, Appl
3	24.8	41.3	379	6	US-09-925-065A-448708	Sequence 448708, A
4	24.8	41.3	390	10	US-10-301-480-508296	Sequence 508296, A
5	24.8	41.3	390	10	US-10-301-480-1121705	Sequence 1121705, A
6	24.4	40.7	464	11	US-11-051-720-507	Sequence 507, App
7	23.6	39.3	452	6	US-09-925-065A-468875	Sequence 468875, A
8	23.6	38.7	415	14	US-11-084-085-74	Sequence 74, Appl
9	23	38.3	201	8	US-10-995-561-66298	Sequence 66298, A
10	23	38.3	201	8	US-10-995-561-66416	Sequence 66416, A
11	23	38.3	201	8	US-10-995-561-66626	Sequence 66626, A
12	22.2	37.0	201	8	US-10-995-561-75733	Sequence 75733, A
13	22.2	37.0	201	8	US-10-995-561-84508	Sequence 84508, A
14	22.2	37.0	219	6	US-09-925-065A-579230	Sequence 579230, A
15	22.2	37.0	219	6	US-09-925-065A-579231	Sequence 579231, A
16	22.2	37.0	384	8	US-10-750-185-34850	Sequence 34850, A
17	22.2	37.0	384	8	US-10-750-623-34850	Sequence 34850, A
18	22.2	37.0	418	6	US-09-925-065A-518990	Sequence 518990, A

C	19	22	36.7	201	14	US-11-124-367A-23655	Sequence 23655, A
C	20	22	36.7	201	14	US-11-124-367A-23656	Sequence 23656, A
C	21	22	36.7	201	14	US-11-124-367A-23657	Sequence 23657, A
C	22	21.8	36.3	222	6	US-09-925-065A-579229	Sequence 579229, A
C	23	21.8	36.3	384	6	US-09-925-065A-218794	Sequence 218794, A
C	24	21.8	36.3	384	6	US-09-925-065A-218795	Sequence 218795, A
C	25	21.8	36.3	385	10	US-10-301-480-304721	Sequence 304721, A
C	26	21.8	36.3	385	10	US-10-301-480-304722	Sequence 304722, A
C	27	21.8	36.3	385	10	US-10-301-480-918130	Sequence 918130, A
C	28	21.8	36.3	385	10	US-10-301-480-918131	Sequence 918131, A
C	29	21.6	36.0	389	6	US-09-925-065A-502219	Sequence 502219, A
C	30	21.4	35.7	201	9	US-10-932-182A-174153	Sequence 174153, A
C	31	21.4	35.7	201	9	US-10-932-182A-174153	Sequence 174153, A
C	32	21.4	35.7	418	10	US-10-301-480-391690	Sequence 391690, A
C	33	21.4	35.7	418	10	US-10-301-480-1005099	Sequence 1005099, A
C	34	21.4	35.7	425	6	US-09-925-065A-316741	Sequence 316741, A
C	35	21.4	35.7	435	6	US-09-925-065A-747497	Sequence 747497, A
C	36	21.2	35.3	289	6	US-09-925-065A-499724	Sequence 499724, A
C	37	21.2	35.3	436	9	US-10-301-480-51306	Sequence 51306, A
C	38	21.2	35.3	436	9	US-10-301-480-51307	Sequence 51307, A
C	39	21.2	35.3	436	10	US-10-301-480-664715	Sequence 664715, A
C	40	21.2	35.3	436	10	US-10-301-480-664716	Sequence 664716, A
C	41	21.2	35.3	494	6	US-09-925-065A-521789	Sequence 521789, A
C	42	21.2	35.3	499	6	US-09-925-065A-531927	Sequence 531927, A
C	43	21.2	35.0	201	8	US-10-995-561-36222	Sequence 36222, A
C	44	21	35.0	201	8	US-10-995-561-36322	Sequence 36322, A
C	45	21	35.0	201	8	US-10-995-561-36342	Sequence 36342, A

ALIGNMENTS

RESULT 1
US-10-517-696-41
; Sequence 41, Application US/10517696
; Publication No. US20060051759A1
; GENERAL INFORMATION:
; APPLICANT: diadexus, Inc.
; APPLICANT: Salceda, Susana
; APPLICANT: Macina, Roberto A.
; APPLICANT: Turner, Leah R.
; APPLICANT: Sun, Yongming
; APPLICANT: Liu, Chenghua
; TITLE OF INVENTION: Compositions and Methods Relating to Breast Specific Genes and Prc
; FILE REFERENCE: DEX-0432
; CURRENT APPLICATION NUMBER: US/10/517,696
; CURRENT FILING DATE: 2004-12-13
; PRIOR APPLICATION NUMBER: US 60/389,327
; PRIOR FILING DATE: 2002-06-14
; NUMBER OF SEQ ID NOS: 171
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 41
; LENGTH: 328
; TYPE: DNA
; ORGANISM: Homo sapien
; US-10-517-696-41

Query Match 58.3%; Score 35; DB 9; Length 328;
Best Local Similarity 74.6%; Pred. No. 0.045;
Matches 44; Conservative 0; Mismatches 15; Indels 0; Gaps 0;

QY 1 GGATCCACCGCGCGCCTGCGCACGAGTGAAGTCGCGCGCGCCGACACGCGCCGCTCC 59
Db 95 GGCTCCACCGCGCGCGCGCACGAGCGGTGTCACTTCGCGCGCGCGCACGAGCGCGCC 153

RESULT 2
US-10-401-386B-43
; Sequence 43, Application US/10401386B
; Publication No. US20050261213A1
; GENERAL INFORMATION:
; APPLICANT: Patrick Branigan
; APPLICANT: Theresa J Goletz

```
; APPLICANT: David M Knight
; APPLICANT: Stephen G McCarthy
; APPLICANT: Bernard J Scallion
; APPLICANT: Linda A Snyder
; TITLE OF INVENTION: Nucleic Acid Compositions and Methods
; TITLE OF INVENTION: for Use
; FILE REFERENCE: CEN 310CIP
; CURRENT APPLICATION NUMBER: US/10/401,386B
; CURRENT FILING DATE: 2003-03-28
; PRIOR APPLICATION NUMBER: 10/247,203
; PRIOR FILING DATE: 2002-09-19
; PRIOR APPLICATION NUMBER: 60/328,371
; PRIOR FILING DATE: 2001-10-10
; NUMBER OF SEQ ID NOS: 81
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 43
; LENGTH: 468
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (1)...(468)
US-10-401-386B-43
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Query Match          56.0%; Score 33.6; DB 8; Length 468;
Best Local Similarity 75.0%; Pred. No. 0.11;
Matches 42; Conservative 0; Mismatches 14; Indels 0; Gaps 0;
```

```
QY      1  GGATCCACCGCGCGCCCTGCGACGAGTGACGTGGCGCCCGACACGCGCCCGC 56
          ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db      412 GGCTCCACCGCGCCCGCCCGACCGGCTGTCACTCGCGCCCGACACGAGCGCGC 467
```

RESULT 3

```
US-09-925-065A-448708/c
; Sequence 448708, Application US/09925065A
; Publication No. US20040181048A1
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single
; TITLE OF INVENTION: Nucleotide Polymorphisms in the Human Genome
; FILE REFERENCE: 108827.135
; CURRENT APPLICATION NUMBER: US/09/925,065A
; CURRENT FILING DATE: 2001-08-08
; PRIOR APPLICATION NUMBER: US 60/243,096
; PRIOR FILING DATE: 2000-10-24
; PRIOR APPLICATION NUMBER: US 60/252,147
; PRIOR FILING DATE: 2000-11-20
; PRIOR APPLICATION NUMBER: US 60/250,092
; PRIOR FILING DATE: 2000-11-30
; PRIOR APPLICATION NUMBER: US 60/261,766
; PRIOR FILING DATE: 2001-01-16
; PRIOR APPLICATION NUMBER: US 60/289,846
; PRIOR FILING DATE: 2001-05-09
; NUMBER OF SEQ ID NOS: 957086
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 448708
; LENGTH: 379
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-925-065A-448708
```

```
Query Match          41.3%; Score 24.8; DB 6; Length 379;
Best Local Similarity 63.3%; Pred. No. 64;
Matches 38; Conservative 0; Mismatches 22; Indels 0; Gaps 0;
```

```
QY      1  GGATCCACCGCGCGCCCTGCGACGAGTGACGTGGCGCCCGACACGCGCCCGCTCCC 60
          ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db      299 GGATGACGCGCGCGCGCGCGCGCGGCGGAGCTGCACGCGCGCGCTGTCAAGCGCGCGCGGCC 240
```

RESULT 4

```
US-10-301-480-508296/c
```

```
; Sequence 508296, Application US/10301480
; Publication No. US20060057564A1
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single Nucleotide Polymorphisms
; TITLE OF INVENTION: in the Human Genome
; FILE REFERENCE: 108827.137
; CURRENT APPLICATION NUMBER: US/10/301,480
; CURRENT FILING DATE: 2002-11-21
; PRIOR APPLICATION NUMBER: US 10/215,598
; PRIOR FILING DATE: 2002-08-09
; PRIOR APPLICATION NUMBER: US 60/311,695
; PRIOR FILING DATE: 2001-08-10
; NUMBER OF SEQ ID NOS: 1226818
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 508296
; LENGTH: 390
; TYPE: DNA
; ORGANISM: Homo sapien
US-10-301-480-508296
```

```
Query Match          41.3%; Score 24.8; DB 10; Length 390;
Best Local Similarity 63.3%; Pred. No. 63;
Matches 38; Conservative 0; Mismatches 22; Indels 0; Gaps 0;
```

```
QY      1  GGATCCACCGCGCGCCCTGCCGACGAGTGACGTGGCGCCCGACACGCGCCCGCTCCC 60
          ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db      310 GGATGACGCGCGCGCGCGCGCGCGGCGGAGCTGCACGCGCGCGCTGTCAAGCGCGCGGCC 251
```

RESULT 5

```
US-10-301-480-1121705/c
; Sequence 1121705, Application US/10301480
; Publication No. US20060057564A1
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single Nucleotide Polymorphisms
; TITLE OF INVENTION: in the Human Genome
; FILE REFERENCE: 108827.137
; CURRENT APPLICATION NUMBER: US/10/301,480
; CURRENT FILING DATE: 2002-11-21
; PRIOR APPLICATION NUMBER: US 10/215,598
; PRIOR FILING DATE: 2002-08-09
; PRIOR APPLICATION NUMBER: US 60/311,695
; PRIOR FILING DATE: 2001-08-10
; NUMBER OF SEQ ID NOS: 1226818
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1121705
; LENGTH: 390
; TYPE: DNA
; ORGANISM: Homo sapien
US-10-301-480-1121705
```

```
Query Match          41.3%; Score 24.8; DB 10; Length 390;
Best Local Similarity 63.3%; Pred. No. 63;
Matches 38; Conservative 0; Mismatches 22; Indels 0; Gaps 0;
```

```
QY      1  GGATCCACCGCGCGCCCTGCGACGAGTGACGTGGCGCCCGACACGCGCCCGCTCCC 60
          ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db      310 GGATGACGCGCGCGCGCGCGCGCGGCGGAGCTGCACGCGCGCGCTGTCAAGCGCGCGGCC 251
```

RESULT 6

```
US-11-051-720-507/c
; Sequence 507, Application US/11051720
; Publication No. US20060046257A1
; GENERAL INFORMATION:
; APPLICANT: Compugen Ltd
; TITLE OF INVENTION: NOVEL NUCLEOTIDE AND AMINO ACID SEQUENCES, AND ASSAYS AND METHODS
; TITLE OF INVENTION: THEREOF FOR DIAGNOSIS OF LUNG CANCER
; FILE REFERENCE: 1847.1002
; CURRENT APPLICATION NUMBER: US/11/051,720
; CURRENT FILING DATE: 2005-01-27
```

; NUMBER OF SEQ ID NOS: 1780
; SEQ ID NO 507
; LENGTH: 464
; TYPE: DNA
; ORGANISM: Artificial
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-11-051-720-507

Query Match 40.7%; Score 24.4; DB 11; Length 464;
Best Local Similarity 63.8%; Pred. No. 81;
Matches 37; Conservative 0; Mismatches 21; Indels 0; Gaps 0;

QY 1 GGATCCACCGCGCGCTGCGCACGAGTACGTCGGCGCCGACACGCGCCCGCTC 58
Db 90 GGATGTCCTCCCGCCACCGCCCAATGATGCGCGTGCGCACCGCGCGCGCGCC 33

RESULT 7

US-09-925-065A-468875/c
; Sequence 468875, Application US/09925065A
; Publication No. US20040181048A1
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single
; TITLE OF INVENTION: Nucleotide Polymorphisms in the Human Genome
; FILE REFERENCE: 108827.135
; CURRENT APPLICATION NUMBER: US/09/925,065A
; CURRENT FILING DATE: 2001-08-08
; PRIOR APPLICATION NUMBER: US 60/243,096
; PRIOR FILING DATE: 2000-10-24
; PRIOR APPLICATION NUMBER: US 60/252,147
; PRIOR FILING DATE: 2000-11-20
; PRIOR APPLICATION NUMBER: US 60/250,092
; PRIOR FILING DATE: 2000-11-30
; PRIOR APPLICATION NUMBER: US 60/261,766
; PRIOR FILING DATE: 2001-01-16
; PRIOR APPLICATION NUMBER: US 60/289,846
; PRIOR FILING DATE: 2001-05-09
; NUMBER OF SEQ ID NOS: 957086
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 468875
; LENGTH: 452
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-925-065A-468875

Query Match 39.3%; Score 23.6; DB 6; Length 452;
Best Local Similarity 62.5%; Pred. No. 1.4e+02;
Matches 35; Conservative 1; Mismatches 20; Indels 0; Gaps 0;

QY 5 CCACCGCGCGCTGCGCACGAGTACGTCGGCGCCGACACGCGCCCGCTCC 60
Db 390 CCTCCGGTCACTGCGCGCGGCTGAGCCCAAGCGCCCGCGCGCGCGCC 335

RESULT 8

US-11-084-085-74
; Sequence 74, Application US/11084085
; Publication No. US20050282147A1
; GENERAL INFORMATION:
; APPLICANT: Feinberg, Andrew
; APPLICANT: Strichman-Almashanu, Liora
; APPLICANT: Jiang, Shan
; TITLE OF INVENTION: METHODS FOR ASSAYING GENE IMPRINTING AND
; TITLE OF INVENTION: METHYLATED CPG ISLANDS
; FILE REFERENCE: 01107.00128
; CURRENT APPLICATION NUMBER: US/11/084,085
; CURRENT FILING DATE: 2005-03-17
; PRIOR APPLICATION NUMBER: US/09/861,893
; PRIOR FILING DATE: 2001-05-22
; PRIOR APPLICATION NUMBER: 60/206,158
; PRIOR FILING DATE: 2000-05-22

; PRIOR APPLICATION NUMBER: 60/206,161
; PRIOR FILING DATE: 2000-05-22
; NUMBER OF SEQ ID NOS: 77
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 74
; LENGTH: 415
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (1)...(415)
; OTHER INFORMATION: n = A,T,C or G
US-11-084-085-74

Query Match 38.7%; Score 23.2; DB 14; Length 415;
Best Local Similarity 64.2%; Pred. No. 2e+02;
Matches 34; Conservative 0; Mismatches 19; Indels 0; Gaps 0;

QY 3 ATCCACCGCGCGCGCTGCGCACGAGTACGTCGGCGCCGACACGCGCCCG 55
Db 254 AGCAGCCACCCCGCTGTGGAAAGTAGAGAGCGCTCTCCGCCGACGCCCG 306

RESULT 9

US-10-995-561-66298/c
; Sequence 66298, Application US/10995561
; Publication No. US20050272054A1
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele et al.
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; TITLE OF INVENTION: CARDIOVASCULAR DISORDERS AND DRUG RESPONSE, METHODS OF
; FILE REFERENCE: CL001559
; CURRENT APPLICATION NUMBER: US/10/995,561
; CURRENT FILING DATE: 2004-11-24
; NUMBER OF SEQ ID NOS: 85702
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 66298
; LENGTH: 201
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-995-561-66298

Query Match 38.3%; Score 23; DB 8; Length 201;
Best Local Similarity 68.1%; Pred. No. 2.7e+02;
Matches 32; Conservative 0; Mismatches 15; Indels 0; Gaps 0;

QY 8 CCGCGCGCGCTGCGCACGAGTACGTCGGCGCCGACACGCGCCCG 54
Db 151 CCACCCCGTCTGGAAAGTAGAGAGCGTCTCCGCCGACGCCCGCC 105

RESULT 10

US-10-995-561-66416/c
; Sequence 66416, Application US/10995561
; Publication No. US20050272054A1
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele et al.
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; TITLE OF INVENTION: CARDIOVASCULAR DISORDERS AND DRUG RESPONSE, METHODS OF
; FILE REFERENCE: CL001559
; CURRENT APPLICATION NUMBER: US/10/995,561
; CURRENT FILING DATE: 2004-11-24
; NUMBER OF SEQ ID NOS: 85702
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 66416
; LENGTH: 201
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-995-561-66416

Query Match 38.3%; Score 23; DB 8; Length 201;

; PRIOR APPLICATION NUMBER: US 60/252,147
 ; PRIOR FILING DATE: 2000-11-20
 ; PRIOR APPLICATION NUMBER: US 60/250,092
 ; PRIOR FILING DATE: 2000-11-30
 ; PRIOR APPLICATION NUMBER: US 60/261,766
 ; PRIOR FILING DATE: 2001-01-16
 ; PRIOR APPLICATION NUMBER: US 60/289,846
 ; PRIOR FILING DATE: 2001-05-09
 ; NUMBER OF SEQ ID NOS: 957086
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 579231
 ; LENGTH: 219
 ; TYPE: DNA
 ; ORGANISM: Homo sapiens
 ; US-09-925-065A-579231

Query Match 37.0%; Score 22.2; DB 6; Length 219;
 Best Local Similarity 64.7%; Pred. No. 4.7e+02;
 Matches 33; Conservative 0; Mismatches 18; Indels 0; Gaps 0;

QY 5 CCACCGCGCGCGCTGCGCAGGAGTGAGTCGGCGCGCCGACACGCGCGCG 55
 Db 137 CAACCAACCGCGCTGTGAGAGTGAGAGAGCGCGCGCGCGCGCGCGCG 187

Search completed: March 27, 2006, 14:47:07
 Job time : 322.3 secs

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GenCore version 5.1.7
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OM nucleic - nucleic search, using sw model

Run on: March 27, 2006, 13:49:57 ; Search time 371.4 Seconds
(without alignments)
1335.925 Million cell updates/sec

Title: US-10-057-136A-5

Perfect score: 60
Sequence: 1 GGATCCACCGCGCGCCTGCTGC.....CCGACACGCGCGCCTCCC 60

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 9793542 seqs, 4134689005 residues

Total number of hits satisfying chosen parameters: 14089978

Minimum DB seq length: 0
Maximum DB seq length: 500

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published Applications NA Main:
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2: /cgn2_6/ptodata/1/pubpna/US08_PUBCOMB.seq:*
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4: /cgn2_6/ptodata/1/pubpna/US09B_PUBCOMB.seq:*
5: /cgn2_6/ptodata/1/pubpna/US10A_PUBCOMB.seq:*
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8: /cgn2_6/ptodata/1/pubpna/US10D_PUBCOMB.seq:*
9: /cgn2_6/ptodata/1/pubpna/US10E_PUBCOMB.seq:*
10: /cgn2_6/ptodata/1/pubpna/US11_PUBCOMB.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	60	100.0	60	5	US-10-057-136-5
2	38.2	63.7	60	5	US-10-057-136-11
3	36.6	61.0	120	8	US-10-635-211-3
4	36.6	61.0	162	8	US-10-635-211-8
5	35	58.3	60	5	US-10-057-136-2
6	33.4	55.7	78	5	US-10-057-136-13
7	32	53.3	60	5	US-10-057-136-14
8	31.8	53.0	60	5	US-10-057-136-6
9	31.8	53.0	60	5	US-10-057-136-8
10	31.8	53.0	60	5	US-10-057-136-9
11	31.8	53.0	60	5	US-10-057-136-10
12	30.2	50.3	60	5	US-10-057-136-7
13	30	50.0	164	3	US-09-664-864-258
14	28.6	47.7	257	8	US-10-425-115-47774
15	27.2	45.3	297	7	US-10-437-963-50884
16	26.8	44.7	420	7	US-10-437-963-66389
17	26.6	44.3	225	7	US-10-437-963-67301
18	26.6	44.3	400	8	US-10-425-115-35567
19	25.8	43.0	60	5	US-10-057-136-12
20	25.8	43.0	294	8	US-10-425-115-13378
21	25.6	42.7	484	7	US-10-767-701-5020
22	25.4	42.3	414	7	US-10-260-238-5762
23	25.2	42.0	245	3	US-09-764-891-8226

C	24	25.2	42.0	334	8	US-10-723-860-3650	Sequence 3650, Ap
C	25	25.2	42.0	334	9	US-10-756-149-3559	Sequence 3559, Ap
	26	25	41.7	93	7	US-10-471-607-3	Sequence 3, Appli
	27	25	41.7	156	7	US-10-471-607-5	Sequence 5, Appli
	28	25	41.7	157	7	US-10-471-607-6	Sequence 6, Appli
	29	25	41.7	157	7	US-10-471-607-9	Sequence 9, Appli
	30	25	41.7	447	3	US-09-814-353-12800	Sequence 12800, A
	31	24.8	41.3	199	8	US-10-723-860-1585	Sequence 1585, Ap
	32	24.8	41.3	309	7	US-10-437-963-51140	Sequence 51140, A
	33	24.8	41.3	379	4	US-09-925-065A-448708	Sequence 448708,
	34	24.8	41.3	380	5	US-10-027-632-136953	Sequence 136953,
	35	24.8	41.3	380	6	US-10-027-632-136953	Sequence 49325, A
	36	24.8	41.3	465	7	US-10-437-963-49325	Sequence 21648, A
	37	24.8	41.3	493	7	US-10-437-963-21648	Sequence 43763, A
	38	24.6	41.0	201	8	US-10-741-600-43763	Sequence 58205, A
	39	24.6	41.0	272	8	US-10-425-115-58205	Sequence 108103,
	40	24.6	41.0	360	8	US-10-425-115-180404	Sequence 180404,
C	41	24.6	41.0	436	8	US-10-425-115-180404	Sequence 54276, A
C	42	24.4	40.7	369	7	US-10-437-963-54276	Sequence 41409, A
C	43	24.4	40.7	408	7	US-10-437-963-41409	Sequence 1943, Ap
	44	24.4	40.7	446	7	US-10-767-701-1943	Sequence 4, Appli
	45	24.2	40.3	60	5	US-10-057-136-4	

ALIGNMENTS

RESULT 1
US-10-057-136-5
; Sequence 5, Application US/10057136
; Publication No. US20030021770A1
; GENERAL INFORMATION:
; APPLICANT: SCHLOM, JEFFREY
; APPLICANT: KANTOR, JUDITH
; APPLICANT: KUFE, DONALD
; APPLICANT: PANICALI, DENNIS
; APPLICANT: GRITZ, LINDA
; TITLE OF INVENTION: RECOMBINANT POX VIRUS FOR IMMUNIZATION AGAINST MUC1
; FILE REFERENCE: 700953/47113C
; CURRENT APPLICATION NUMBER: US/10/057, 136
; PRIORITY FILING DATE: 2002-01-25
; PRIOR APPLICATION NUMBER: 09/366, 670
; PRIOR FILING DATE: 1999-08-03
; PRIOR APPLICATION NUMBER: PCT/US98/03693
; PRIOR FILING DATE: 1998-02-24
; PRIOR APPLICATION NUMBER: 60/038, 253
; PRIOR FILING DATE: 1997-02-24
; NUMBER OF SEQ ID NOS: 20
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 5
; LENGTH: 60
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-057-136-5

Query Match 100.0%; Score 60; DB 5; Length 60;
Best Local Similarity 100.0%; Pred. No. 6.2e-11;
Matches 60; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

CY 1 GGATCCACCGCGCGCCTGCGACGAGTGACGTGCGCGCCGACACGCGCGCCTCCC 60
Db 1 GGATCCACCGCGCGCCTGCGACGAGTGACGTGCGCGCCGACACGCGCGCCTCCC 60
RESULT 2
US-10-057-136-11
; Sequence 11, Application US/10057136
; Publication No. US20030021770A1
; GENERAL INFORMATION:
; APPLICANT: SCHLOM, JEFFREY
; APPLICANT: KANTOR, JUDITH
; APPLICANT: KUFE, DONALD

```
; APPLICANT: PANICALI, DENNIS
; APPLICANT: GRITZ, LINDA
; TITLE OF INVENTION: RECOMBINANT POX VIRUS FOR IMMUNIZATION AGAINST MUC1
; TITLE OF INVENTION: TUMOR-ASSOCIATED ANTIGEN
; FILE REFERENCE: 700953/47113C
; CURRENT APPLICATION NUMBER: US/10/057,136
; CURRENT FILING DATE: 2002-01-25
; PRIOR APPLICATION NUMBER: 09/366,670
; PRIOR FILING DATE: 1999-08-03
; PRIOR APPLICATION NUMBER: PCT/US98/03693
; PRIOR FILING DATE: 1998-02-24
; PRIOR APPLICATION NUMBER: 60/038,253
; PRIOR FILING DATE: 1997-02-24
; NUMBER OF SEQ ID NOS: 20
; SOFTWARE: Patentn Ver. 2.1
; SEQ ID NO 11
; LENGTH: 60
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-057-136-11
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Query Match          63.7%; Score 38.2; DB 5; Length 60;
Best Local Similarity 78.0%; Pred. No. 0.0015;
Matches 46; Conservative 0; Mismatches 13; Indels 0; Gaps 0;
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QY      1 GGATCCACCGCGCGCTGCGCAGGAGTGACGTGCGCGCGCGGACAGCGCGCGCTCC 59
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Db      1 GGTTCACGCGCAGCTCCAGCAGGAGTGACGTGCGCAGCGCGGACAGCGCGCTCC 59
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RESULT 3

```
US-10-635-211-3
; Sequence 3, Application US/10635211
; Publication No. US20050031649A1
; GENERAL INFORMATION:
; APPLICANT: Beijing HYDVAX Biotechnology Co. Ltd
; TITLE OF INVENTION: A recombinant fusion protein comprising BCG heat shock protein 65
; TITLE OF INVENTION: and the epitope of MUC1
; FILE REFERENCE: FP03012US
; CURRENT APPLICATION NUMBER: US/10/635,211
; CURRENT FILING DATE: 2003-08-06
; NUMBER OF SEQ ID NOS: 9
; SOFTWARE: Patentn version 3.2
; SEQ ID NO 3
; LENGTH: 120
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (1)..(120)
US-10-635-211-3
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```
Query Match          61.0%; Score 36.6; DB 8; Length 120;
Best Local Similarity 76.3%; Pred. No. 0.0045;
Matches 45; Conservative 0; Mismatches 14; Indels 0; Gaps 0;
```

```
QY      1 GGATCCACCGCGCGCTGCGCAGGAGTGACGTGCGCGCGCGGACAGCGCGCGCTCC 59
          |||||
Db      1 GGTTCACGCGCTCCGCGCGCTCAGCGGTGTACCTGTGCTCCGGACAGCGCGCTCC 59
```

RESULT 4

```
US-10-635-211-8/c
; Sequence 8, Application US/10635211
; Publication No. US20050031649A1
; GENERAL INFORMATION:
; APPLICANT: Beijing HYDVAX Biotechnology Co. Ltd
; TITLE OF INVENTION: A recombinant fusion protein comprising BCG heat shock protein 65
; TITLE OF INVENTION: and the epitope of MUC1
; FILE REFERENCE: FP03012US
; CURRENT APPLICATION NUMBER: US/10/635,211
; CURRENT FILING DATE: 2003-08-06
; NUMBER OF SEQ ID NOS: 9
```

```
; SOFTWARE: Patentn version 3.2
; SEQ ID NO 8
; LENGTH: 162
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Primer
US-10-635-211-8
```

```
Query Match          61.0%; Score 36.6; DB 8; Length 162;
Best Local Similarity 76.3%; Pred. No. 0.0042;
Matches 45; Conservative 0; Mismatches 14; Indels 0; Gaps 0;
```

```
QY      1 GGATCCACCGCGCGCTGCGCAGGAGTGACGTGCGCGCGGACAGCGCGCGCTCC 59
          |||||
Db      138 GGTTCACGCGCTCCGCGCGCTCAGCGGTGTACCTGTGCTCCGGACAGCGCGCTCC 80
```

RESULT 5

```
US-10-057-136-2
; Sequence 2, Application US/10057136
; Publication No. US20030021770A1
; GENERAL INFORMATION:
; APPLICANT: SCHLOM, JEFFREY
; APPLICANT: KANTOR, JUDITH
; APPLICANT: KUBE, DONALD
; APPLICANT: PANICALI, DENNIS
; APPLICANT: GRITZ, LINDA
; TITLE OF INVENTION: RECOMBINANT POX VIRUS FOR IMMUNIZATION AGAINST MUC1
; TITLE OF INVENTION: TUMOR-ASSOCIATED ANTIGEN
; FILE REFERENCE: 700953/47113C
; CURRENT APPLICATION NUMBER: US/10/057,136
; CURRENT FILING DATE: 2002-01-25
; PRIOR APPLICATION NUMBER: 09/366,670
; PRIOR FILING DATE: 1999-08-03
; PRIOR APPLICATION NUMBER: PCT/US98/03693
; PRIOR FILING DATE: 1998-02-24
; PRIOR APPLICATION NUMBER: 60/038,253
; PRIOR FILING DATE: 1997-02-24
; NUMBER OF SEQ ID NOS: 20
; SOFTWARE: Patentn Ver. 2.1
; SEQ ID NO 2
; LENGTH: 60
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-057-136-2
```

```
Query Match          58.3%; Score 35; DB 5; Length 60;
Best Local Similarity 74.6%; Pred. No. 0.018;
Matches 44; Conservative 0; Mismatches 15; Indels 0; Gaps 0;
```

```
QY      1 GGATCCACCGCGCGCTGCGCAGGAGTGACGTGCGCGCGGACAGCGCGCGCTCC 59
          |||||
Db      1 GGCTCCACCGCGCGCGCGCGCAGCCAGCGGTGTACCTGCGCCCGGACAGCGCGCGCTCC 59
```

RESULT 6

```
US-10-057-136-13
; Sequence 13, Application US/10057136
; Publication No. US20030021770A1
; GENERAL INFORMATION:
; APPLICANT: SCHLOM, JEFFREY
; APPLICANT: KANTOR, JUDITH
; APPLICANT: KUBE, DONALD
; APPLICANT: PANICALI, DENNIS
; APPLICANT: GRITZ, LINDA
; TITLE OF INVENTION: RECOMBINANT POX VIRUS FOR IMMUNIZATION AGAINST MUC1
; TITLE OF INVENTION: TUMOR-ASSOCIATED ANTIGEN
; FILE REFERENCE: 700953/47113C
; CURRENT APPLICATION NUMBER: US/10/057,136
; CURRENT FILING DATE: 2002-01-25
; PRIOR APPLICATION NUMBER: 09/366,670
; PRIOR FILING DATE: 1999-08-03
```

```
; PRIOR APPLICATION NUMBER: PCT/US98/03693
; PRIOR FILING DATE: 1998-02-24
; PRIOR APPLICATION NUMBER: 60/038,253
; PRIOR FILING DATE: 1997-02-24
; NUMBER OF SEQ ID NOS: 20
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 13
; LENGTH: 78
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-057-136-13
```

```
Query Match          55.7%; Score 33.4; DB 5; Length 78;
Best Local Similarity 72.9%; Pred. No. 0.06;
Matches 43; Conservative 0; Mismatches 16; Indels 0; Gaps 0;
```

```
QY      1 GGATCCACCGCGCGCGCTGCGCAGCAGTAGTACGTGCGGCGCCGACACGCGCCCGCTCC 59
      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db      1 GGCTCCACCGCAGCCCGCAGCCCGCAGGTGTACCTCGGCGCCGACACAGCGCGGCGCC 59
```

RESULT 7
US-10-057-136-14

```
; Sequence 14, Application US/10057136
; Publication No. US20030021770A1
; GENERAL INFORMATION:
; APPLICANT: SCHLOM, JEFFREY
; APPLICANT: KANTOR, JUDITH
; APPLICANT: KUFE, DONALD
; APPLICANT: PANICALI, DENNIS
; APPLICANT: GRITZ, LINDA
; TITLE OF INVENTION: RECOMBINANT POX VIRUS FOR IMMUNIZATION AGAINST MUC1
; FILE REFERENCE: 700953/47113C
; CURRENT APPLICATION NUMBER: US/10/057,136
; PRIOR FILING DATE: 2002-01-25
; PRIOR APPLICATION NUMBER: 09/366,670
; PRIOR FILING DATE: 1999-08-03
; PRIOR APPLICATION NUMBER: PCT/US98/03693
; PRIOR FILING DATE: 1998-02-24
; PRIOR APPLICATION NUMBER: 60/038,253
; PRIOR FILING DATE: 1997-02-24
; NUMBER OF SEQ ID NOS: 20
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 14
; LENGTH: 60
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-057-136-14
```

```
Query Match          53.3%; Score 32; DB 5; Length 60;
Best Local Similarity 73.2%; Pred. No. 0.19;
Matches 41; Conservative 0; Mismatches 15; Indels 0; Gaps 0;
```

```
QY      1 GGATCCACCGCGCGCGCTGCGCAGCAGTAGTACGTGCGGCGCCGACACGCGCCCGCC 56
      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db      1 GGCTCCACCGCGCCCGCAGCCCGCAGGTGTACCTCGGCGCCGACACAGCGCGCCG 56
```

RESULT 8
US-10-057-136-6

```
; Sequence 6, Application US/10057136
; Publication No. US20030021770A1
; GENERAL INFORMATION:
; APPLICANT: SCHLOM, JEFFREY
; APPLICANT: KANTOR, JUDITH
; APPLICANT: KUFE, DONALD
; APPLICANT: PANICALI, DENNIS
; APPLICANT: GRITZ, LINDA
; TITLE OF INVENTION: RECOMBINANT POX VIRUS FOR IMMUNIZATION AGAINST MUC1
; FILE REFERENCE: 700953/47113C
; CURRENT APPLICATION NUMBER: US/10/057,136
```

```
; CURRENT FILING DATE: 2002-01-25
; PRIOR APPLICATION NUMBER: 09/366,670
; PRIOR FILING DATE: 1999-08-03
; PRIOR APPLICATION NUMBER: PCT/US98/03693
; PRIOR FILING DATE: 1998-02-24
; PRIOR APPLICATION NUMBER: 60/038,253
; PRIOR FILING DATE: 1997-02-24
; NUMBER OF SEQ ID NOS: 20
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 6
; LENGTH: 60
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-057-136-6
```

```
Query Match          53.0%; Score 31.8; DB 5; Length 60;
Best Local Similarity 71.2%; Pred. No. 0.22;
Matches 42; Conservative 0; Mismatches 17; Indels 0; Gaps 0;
```

```
QY      1 GGATCCACCGCGCGCGCTGCGCAGCAGTAGTACGTGCGGCGCCGACACGCGCCCGCTCC 59
      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db      1 GGCTCACAGCTCTCTCCGCTCAGTGGGTACTTCTGCTCCAGATACCTCGCCAGCTCC 59
```

RESULT 9
US-10-057-136-8

```
; Sequence 8, Application US/10057136
; Publication No. US20030021770A1
; GENERAL INFORMATION:
; APPLICANT: SCHLOM, JEFFREY
; APPLICANT: KANTOR, JUDITH
; APPLICANT: KUFE, DONALD
; APPLICANT: PANICALI, DENNIS
; APPLICANT: GRITZ, LINDA
; TITLE OF INVENTION: RECOMBINANT POX VIRUS FOR IMMUNIZATION AGAINST MUC1
; FILE REFERENCE: 700953/47113C
; CURRENT APPLICATION NUMBER: US/10/057,136
; PRIOR FILING DATE: 2002-01-25
; PRIOR APPLICATION NUMBER: 09/366,670
; PRIOR FILING DATE: 1999-08-03
; PRIOR APPLICATION NUMBER: PCT/US98/03693
; PRIOR FILING DATE: 1998-02-24
; PRIOR APPLICATION NUMBER: 60/038,253
; PRIOR FILING DATE: 1997-02-24
; NUMBER OF SEQ ID NOS: 20
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 8
; LENGTH: 60
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-057-136-8
```

```
Query Match          53.0%; Score 31.8; DB 5; Length 60;
Best Local Similarity 71.2%; Pred. No. 0.22;
Matches 42; Conservative 0; Mismatches 17; Indels 0; Gaps 0;
```

```
QY      1 GGATCCACCGCGCGCGCTGCGCAGCAGTAGTACGTGCGGCGCCGACACGCGCCCGCTCC 59
      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db      1 GGCACGACCGCAGCCCGCCGACACGCGGGTCAAGCGCGCGCAGACTGACCTGCGCC 59
```

RESULT 10
US-10-057-136-9

```
; Sequence 9, Application US/10057136
; Publication No. US20030021770A1
; GENERAL INFORMATION:
; APPLICANT: SCHLOM, JEFFREY
; APPLICANT: KANTOR, JUDITH
; APPLICANT: KUFE, DONALD
; APPLICANT: PANICALI, DENNIS
; APPLICANT: GRITZ, LINDA
; TITLE OF INVENTION: RECOMBINANT POX VIRUS FOR IMMUNIZATION AGAINST MUC1
```

```
; TITLE OF INVENTION: TUMOR-ASSOCIATED ANTIGEN
; FILE REFERENCE: 700953/47113C
; CURRENT APPLICATION NUMBER: US/10/057,136
; CURRENT FILING DATE: 2002-01-25
; PRIOR APPLICATION NUMBER: 09/366,670
; PRIOR FILING DATE: 1999-08-03
; PRIOR APPLICATION NUMBER: PCT/US98/03693
; PRIOR FILING DATE: 1998-02-24
; PRIOR APPLICATION NUMBER: 60/038,253
; PRIOR FILING DATE: 1997-02-24
; NUMBER OF SEQ ID NOS: 20
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 9
; LENGTH: 60
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-057-136-9
```

```
Query Match          53.0%; Score 31.8; DB 5; Length 60;
Best Local Similarity 71.2%; Pred. No. 0.22;
Matches 42; Conservative 0; Mismatches 17; Indels 0; Gaps 0;
```

```
QY 1 GGATCCACCGCGCCGCTGCGACGAGTGACGTGCGCGCCCGACACGCGCCGCTCC 59
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 1 GGAGTACCGCTCCACCTGCACACGCGGTCAAGCGCGCCAGACACTCGACCTGCGCC 59
```

```
RESULT 11
US-10-057-136-10
; Sequence 10, Application US/10057136
; Publication No. US20030021770A1
; GENERAL INFORMATION:
; APPLICANT: SCHLOM, JEFFREY
; APPLICANT: KANTOR, JUDITH
; APPLICANT: KUFER, DONALD
; APPLICANT: PANICALI, DENNIS
; APPLICANT: GRITZ, LINDA
; TITLE OF INVENTION: RECOMBINANT POX VIRUS FOR IMMUNIZATION AGAINST MUC1
; TITLE OF INVENTION: TUMOR-ASSOCIATED ANTIGEN
; FILE REFERENCE: 700953/47113C
; CURRENT APPLICATION NUMBER: US/10/057,136
; CURRENT FILING DATE: 2002-01-25
; PRIOR APPLICATION NUMBER: 09/366,670
; PRIOR FILING DATE: 1999-08-03
; PRIOR APPLICATION NUMBER: PCT/US98/03693
; PRIOR FILING DATE: 1998-02-24
; PRIOR APPLICATION NUMBER: 60/038,253
; PRIOR FILING DATE: 1997-02-24
; NUMBER OF SEQ ID NOS: 20
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 10
; LENGTH: 60
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-057-136-10
```

```
Query Match          53.0%; Score 31.8; DB 5; Length 60;
Best Local Similarity 71.2%; Pred. No. 0.22;
Matches 42; Conservative 0; Mismatches 17; Indels 0; Gaps 0;
```

```
QY 1 GGATCCACCGCGCCGCTGCGACGAGTGACGTGCGCGCCCGACACGCGCCGCTCC 59
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 1 GGGTCGACGTCCTCCCTCGCGCATGTGTGACCTCCTGACACAAAGGCCAGCCCC 59
```

```
RESULT 12
US-10-057-136-7
; Sequence 7, Application US/10057136
; Publication No. US20030021770A1
; GENERAL INFORMATION:
; APPLICANT: SCHLOM, JEFFREY
; APPLICANT: KANTOR, JUDITH
; APPLICANT: KUFER, DONALD
```

```
; APPLICANT: PANICALI, DENNIS
; APPLICANT: GRITZ, LINDA
; TITLE OF INVENTION: RECOMBINANT POX VIRUS FOR IMMUNIZATION AGAINST MUC1
; TITLE OF INVENTION: TUMOR-ASSOCIATED ANTIGEN
; FILE REFERENCE: 700953/47113C
; CURRENT APPLICATION NUMBER: US/10/057,136
; CURRENT FILING DATE: 2002-01-25
; PRIOR APPLICATION NUMBER: 09/366,670
; PRIOR FILING DATE: 1999-08-03
; PRIOR APPLICATION NUMBER: PCT/US98/03693
; PRIOR FILING DATE: 1998-02-24
; PRIOR APPLICATION NUMBER: 60/038,253
; PRIOR FILING DATE: 1997-02-24
; NUMBER OF SEQ ID NOS: 20
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 7
; LENGTH: 60
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-057-136-7
```

```
Query Match          50.3%; Score 30.2; DB 5; Length 60;
Best Local Similarity 69.5%; Pred. No. 0.77;
Matches 41; Conservative 0; Mismatches 18; Indels 0; Gaps 0;
```

```
QY 1 GGATCCACCGCGCCGCTGCGACGAGTGACGTGCGCGCCCGACACGCGCCGCTCC 59
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 1 GGTTCGACGCGCCCTGCTGCACGAGTGATCATCCGCCCGGATACCAACGCGCCCC 59
```

```
RESULT 13
US-09-864-864-258
; Sequence 258, Application US/09864864
; Patent No. US20020102679A1
; GENERAL INFORMATION:
; APPLICANT: XU, Jiangchun
; APPLICANT: MITCHEM, Jennifer L.
; APPLICANT: HILLOCKER, Susan L.
; APPLICANT: DILLON, Davin C.
; APPLICANT: SECRETIST, Heather
; APPLICANT: LODES, Michael J.
; APPLICANT: ALGATE, Paul A.
; APPLICANT: FLING, Steve P.
; APPLICANT: MANNION, Jane
; APPLICANT: BENSON, Darin R.
; APPLICANT: CARTER, Darrick
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
; TITLE OF INVENTION: AND DIAGNOSIS OF OVARIAN CANCER
; FILE REFERENCE: 210121.523
; CURRENT APPLICATION NUMBER: US/09/864,864
; CURRENT FILING DATE: 2001-05-23
; NUMBER OF SEQ ID NOS: 341
; SOFTWARE: Corixa Invention Disclosure Database
; SEQ ID NO 258
; LENGTH: 164
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)...(164)
; OTHER INFORMATION: n = A,T,C or G
US-09-864-864-258
```

```
Query Match          50.0%; Score 30; DB 3; Length 164;
Best Local Similarity 78.3%; Pred. No. 0.72;
Matches 36; Conservative 0; Mismatches 10; Indels 0; Gaps 0;
```

```
QY 1 GGATCCACCGCGCCGCTGCGACGAGTGACGTGCGCGCCCGACACGCGCCGCTCC 46
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 42 GGTTCACCGCGCCCGCCAGCCACGAGTGATCCTCGGCGCCCGACAC 87
```

```
RESULT 14
```

```

US-10-425-115-47774
; Sequence 47774, Application US/10425115
; Publication No. US20040214272A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53222)B
; CURRENT APPLICATION NUMBER: US/10/425,115
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO 47774
; LENGTH: 257
; TYPE: DNA
; ORGANISM: Zea mays
; FEATURE:
; OTHER INFORMATION: Clone ID: MRT4577_143577C.1
US-10-425-115-47774

```

```

Query Match      47.7%; Score 28.6; DB 8; Length 257;
Best Local Similarity 67.8%; Pred. No. 1.9;
Matches 40; Conservative 0; Mismatches 19; Indels 0; Gaps 0;

```

```

QY      1 GGATCCACCGCGCCCTGCGCAGAGTGACGTGCGCGCCCGACACGCGCCCGCTCC 59
          |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||
Db      56 GGGTCGGTCGTCCTCTCCGTAAGGAAGCTCGCCGCGCTGAGCCTCGCCCGCTCC 114

```

```

RESULT 15
US-10-437-963-50884
; Sequence 50884, Application US/10437963
; Publication No. US20040123343A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; APPLICANT: Wu, Wei
; APPLICANT: Boukharov, Andrey A.
; APPLICANT: Barbazuk, Brad
; APPLICANT: Li, Ping
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53221)B
; CURRENT APPLICATION NUMBER: US/10/437,963
; CURRENT FILING DATE: 2003-05-14
; NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 50884
; LENGTH: 297
; TYPE: DNA
; ORGANISM: Oryza sativa
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT4530_53329C.1
US-10-437-963-50884

```

```

Query Match      45.3%; Score 27.2; DB 7; Length 297;
Best Local Similarity 67.9%; Pred. No. 5.6;
Matches 38; Conservative 0; Mismatches 18; Indels 0; Gaps 0;

```

```

QY      4 TCCACCGCGCGCTGCGCAGAGTGAGTGGCGCCGACACGCGCCCGCTCC 59
          |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||
Db      195 TCCACCGCGCGCGCGCTGCGCTCAAGCCTCGCCGACACCGCGCGCGCC 250

```

Search completed: March 27, 2006, 17:07:45
 Job time : 372.4 secs

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OM nucleic - nucleic search, using sw model

Run on: March 27, 2006, 13:53:26 ; Search time 321.3 Seconds
(without alignments)
744.399 Million cell updates/sec

Title: US-10-057-136A-4
Perfect score: 60
Sequence: 1 GGCAGTACTGCACCGCCGGC.....CTGATACAGACCTGCACCT 60

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 9258654 seqs, 1993127192 residues

Total number of hits satisfying chosen parameters: 14431810

Minimum DB seq length: 0
Maximum DB seq length: 500

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published Applications NA New:*

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2:	/SIDS5/ptodata/2/pubpna/US06_NEW_PUB.seq:*
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4:	/SIDS5/ptodata/2/pubpna/PCT_NEW_PUB.seq:*
5:	/SIDS5/ptodata/2/pubpna/US09_NEW_PUB.seq:*
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11:	/SIDS5/ptodata/2/pubpna/US11_NEW_PUB.seq:*
12:	/SIDS5/ptodata/2/pubpna/US11_NEW_PUB.seq:*
13:	/SIDS5/ptodata/2/pubpna/US11_NEW_PUB.seq:*
14:	/SIDS5/ptodata/2/pubpna/US11_NEW_PUB.seq:*
15:	/SIDS5/ptodata/2/pubpna/US60_NEW_PUB.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB	ID	Description
1	25.6	42.7	468	8	US-10-401-386B-43	Sequence 43, Appl
2	25.4	42.3	328	9	US-10-517-696-41	Sequence 41, Appl
3	23.8	39.7	201	8	US-10-995-561-12880	Sequence 12880, A
4	23.8	39.7	201	8	US-10-995-561-13000	Sequence 13000, A
5	23.8	39.7	201	8	US-10-995-561-13026	Sequence 13026, A
6	23.8	39.7	201	8	US-10-995-561-13086	Sequence 13086, A
7	23.8	39.7	400	14	US-11-108-172-341	Sequence 341, App
8	23.6	39.3	342	9	US-10-932-182A-4101	Sequence 4101, Ap
9	23.6	39.3	342	9	US-10-932-182A-4101	Sequence 4101, Ap
10	22.4	37.3	495	10	US-10-301-480-256472	Sequence 256472,
11	22.4	37.3	495	10	US-10-301-480-256473	Sequence 256473,
12	22.4	37.3	495	10	US-10-301-480-869881	Sequence 869881,
13	22.4	37.3	495	10	US-10-301-480-869882	Sequence 869882,
14	22.4	37.3	496	6	US-09-925-065A-164106	Sequence 164106,
15	22.4	37.3	496	6	US-09-925-065A-164107	Sequence 164107,
16	21.8	36.3	401	14	US-11-000-688-856	Sequence 856, App
17	21.4	35.7	201	6	US-09-925-065A-602187	Sequence 602187,
18	21.4	35.7	201	8	US-10-995-561-3430	Sequence 3430, Ap

C	19	21.4	35.7	201	8	US-10-995-561-3435	Sequence 3435, Ap
C	20	21.4	35.7	201	8	US-10-995-561-3451	Sequence 3451, Ap
C	21	21.4	35.7	201	8	US-10-995-561-3456	Sequence 3456, Ap
C	22	21.4	35.7	201	8	US-10-995-561-24632	Sequence 24632, A
C	23	21.4	35.7	201	8	US-10-995-561-24649	Sequence 24649, A
C	24	21.4	35.7	454	6	US-09-925-065A-164108	Sequence 164108,
C	25	21.4	35.7	455	6	US-09-925-065A-305784	Sequence 305784,
C	26	21.4	35.7	455	6	US-09-925-065A-305785	Sequence 305785,
C	27	21.4	35.7	457	10	US-10-301-480-256474	Sequence 256474,
C	28	21.4	35.7	457	10	US-10-301-480-869883	Sequence 869883,
C	29	21.4	35.7	463	10	US-10-301-480-381770	Sequence 381770,
C	30	21.4	35.7	463	10	US-10-301-480-995179	Sequence 995179,
C	31	21.4	35.7	474	9	US-10-301-480-205784	Sequence 205784,
C	32	21.4	35.7	474	10	US-10-301-480-819193	Sequence 819193,
C	33	21.4	35.7	476	6	US-09-925-065A-105735	Sequence 105735,
C	34	21.4	35.7	476	6	US-09-925-065A-164109	Sequence 164109,
C	35	21.4	35.7	478	9	US-10-301-480-5443	Sequence 5443, Ap
C	36	21.4	35.7	478	10	US-10-301-480-256475	Sequence 256475,
C	37	21.4	35.7	478	10	US-10-301-480-618852	Sequence 618852,
C	38	21.4	35.7	478	10	US-10-301-480-869884	Sequence 869884,
C	39	21.2	35.3	96	14	US-11-107-096-25	Sequence 25, Appl
C	40	21.2	35.3	420	14	US-11-136-527-534	Sequence 534, App
C	41	21.2	35.3	420	14	US-11-136-527-4630	Sequence 4630, App
C	42	21.2	35.3	469	14	US-11-000-688-967	Sequence 967, App
C	43	21	35.0	455	6	US-09-925-065A-305786	Sequence 305786,
C	44	21	35.0	480	9	US-10-932-182A-75552	Sequence 75552, A
C	45	21	35.0	480	9	US-10-932-182A-75552	Sequence 75552, A

ALIGNMENTS

RESULT 1

US-10-401-386B-43

Sequence 43, Application US/10401386B

Publication No. US20050261213A1

GENERAL INFORMATION:

APPLICANT: Patrick Branigan

APPLICANT: Theresa J Goletz

APPLICANT: David M Knight

APPLICANT: Stephen G McCarthy

APPLICANT: Bernard J Scallion

APPLICANT: Linda A Snyder

TITLE OF INVENTION: Nucleic Acid Compositions and Methods

TITLE OF INVENTION: for Use

FILE REFERENCE: CEN 310CIP

CURRENT APPLICATION NUMBER: US/10/401,386B

CURRENT FILING DATE: 2003-03-28

PRIOR APPLICATION NUMBER: 10/247,203

PRIOR FILING DATE: 2002-09-19

PRIOR APPLICATION NUMBER: 60/328,371

PRIOR FILING DATE: 2001-10-10

NUMBER OF SEQ ID NOS: 81

SOFTWARE: FastSeq for Windows Version 4.0

SEQ ID NO 43

LENGTH: 468

TYPE: DNA

ORGANISM: Homo sapiens

FEATURE:

NAME/KEY: CDS

LOCATION: (1)...(468)

US-10-401-386B-43

Query Match 42.7%; Score 25.6; DB 8; Length 468;

Best Local Similarity 66.1%; Pred. No. 11;

Matches 37; Conservative 0; Mismatches 19; Indels 0; Gaps 0;

QY 1 GGCAGTACTGCACCGCCGACATGCGTATACATCAGACCTGATACAGACCTGC 56

Db 412 GGCCTCCACCGCCCCCGACCGCGGTGTCACTTCGGCCCCCGACACAGCGCGGC 467

RESULT 2

```
US-10-517-696-41
; Sequence 41, Application US/10517696
; Publication No. US20060051759A1
; GENERAL INFORMATION:
; APPLICANT: diadexus, Inc.
; APPLICANT: Salceda, Susana
; APPLICANT: Macina, Roberto A.
; APPLICANT: Turner, Leah R.
; APPLICANT: Sun, Yongming
; APPLICANT: Liu, Chenghua
; TITLE OF INVENTION: Compositions and Methods Relating to Breast Specific Genes and P
; FILE REFERENCE: DEX-0432
; CURRENT APPLICATION NUMBER: US/10/517,696
; PRIOR FILING DATE: 2004-12-13
; PRIOR FILING DATE: 2002-06-14
; NUMBER OF SEQ ID NOS: 171
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 41
; LENGTH: 328
; TYPE: DNA
; ORGANISM: Homo sapien
US-10-517-696-41
```

```
Query Match          42.3%; Score 25.4; DB 9; Length 328;
Best Local Similarity 64.4%; Pred. No. 12;
Matches 38; Conservative 0; Mismatches 21; Indels 0; Gaps 0;
```

```
QY      1 GGCAGTACTGCACCAACCGGACATGGCGTAAATCAGACCACTGATACAGACCTGCACCT 59
      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db      95 GGCTCCACCGCGCCGCGACGCCACGCTGTACCTCGCCCGGACACACGAGCCGCGCC 153
```

```
RESULT 3
US-10-995-561-12880
; Sequence 12880, Application US/10995561
; Publication No. US20050272054A1
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele et al.
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; TITLE OF INVENTION: CARDIOVASCULAR DISORDERS AND DRUG RESPONSE, METHODS OF
; TITLE OF INVENTION: DETECTION AND USES THEREOF
; FILE REFERENCE: CL001559
; CURRENT APPLICATION NUMBER: US/10/995,561
; CURRENT FILING DATE: 2004-11-24
; NUMBER OF SEQ ID NOS: 85702
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 12880
; LENGTH: 201
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-995-561-12880
```

```
Query Match          39.7%; Score 23.8; DB 8; Length 201;
Best Local Similarity 62.7%; Pred. No. 43;
Matches 37; Conservative 0; Mismatches 22; Indels 0; Gaps 0;
```

```
QY      2 GCAGTACTGCACCAACCGGACATGGCGTAAATCAGACCACTGATACAGACCTGCACCT 60
      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db      18 GCAGGACGGCTTCACAGACACGCGGGCCTACTGGCGCTCCTGTACAACTCCCCCACCT 76
```

```
RESULT 4
US-10-995-561-13000
; Sequence 13000, Application US/10995561
; Publication No. US20050272054A1
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele et al.
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; TITLE OF INVENTION: CARDIOVASCULAR DISORDERS AND DRUG RESPONSE, METHODS OF
; TITLE OF INVENTION: DETECTION AND USES THEREOF
; FILE REFERENCE: CL001559
; CURRENT APPLICATION NUMBER: US/10/995,561
```

```
; CURRENT FILING DATE: 2004-11-24
; NUMBER OF SEQ ID NOS: 85702
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 13000
; LENGTH: 201
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-995-561-13000
```

```
Query Match          39.7%; Score 23.8; DB 8; Length 201;
Best Local Similarity 62.7%; Pred. No. 43;
Matches 37; Conservative 0; Mismatches 22; Indels 0; Gaps 0;
```

```
QY      2 GCAGTACTGCACCAACCGGACATGGCGTAAATCAGACCACTGATACAGACCTGCACCT 60
      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db      18 GCAGGACGGCTTCACAGACACGCGGGCCTACTGGCGCTCCTGTACAACTCCCCCACCT 76
```

```
RESULT 5
US-10-995-561-13026
; Sequence 13026, Application US/10995561
; Publication No. US20050272054A1
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele et al.
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; TITLE OF INVENTION: CARDIOVASCULAR DISORDERS AND DRUG RESPONSE, METHODS OF
; TITLE OF INVENTION: DETECTION AND USES THEREOF
; FILE REFERENCE: CL001559
; CURRENT APPLICATION NUMBER: US/10/995,561
; CURRENT FILING DATE: 2004-11-24
; NUMBER OF SEQ ID NOS: 85702
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 13026
; LENGTH: 201
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-995-561-13026
```

```
Query Match          39.7%; Score 23.8; DB 8; Length 201;
Best Local Similarity 62.7%; Pred. No. 43;
Matches 37; Conservative 0; Mismatches 22; Indels 0; Gaps 0;
```

```
QY      2 GCAGTACTGCACCAACCGGACATGGCGTAAATCAGACCACTGATACAGACCTGCACCT 60
      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db      18 GCAGGACGGCTTCACAGACACGCGGGCCTACTGGCGCTCCTGTACAACTCCCCCACCT 76
```

```
RESULT 6
US-10-995-561-13086
; Sequence 13086, Application US/10995561
; Publication No. US20050272054A1
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele et al.
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; TITLE OF INVENTION: CARDIOVASCULAR DISORDERS AND DRUG RESPONSE, METHODS OF
; TITLE OF INVENTION: DETECTION AND USES THEREOF
; FILE REFERENCE: CL001559
; CURRENT APPLICATION NUMBER: US/10/995,561
; CURRENT FILING DATE: 2004-11-24
; NUMBER OF SEQ ID NOS: 85702
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 13086
; LENGTH: 201
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-995-561-13086
```

```
Query Match          39.7%; Score 23.8; DB 8; Length 201;
Best Local Similarity 62.7%; Pred. No. 43;
Matches 37; Conservative 0; Mismatches 22; Indels 0; Gaps 0;
```

```
QY      2 GCAGTACTGCACCAACCGGACATGGCGTAAATCAGACCACTGATACAGACCTGCACCT 60
      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
```

```
Db      18 GCAGAGCGGCTTCACAGACAGCGGGGCTACTGGCGCTCCTGTACAACTCCCCCACT 76

RESULT 7
US-11-108-172-341
; Sequence 341, Application US/11108172
; Publication No. US20050260177A1
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Lodes, Michael J.
; APPLICANT: Secretst, Heather
; APPLICANT: Benson, Darin R.
; APPLICANT: Meagher, Madeleine Joy
; APPLICANT: Stolk, John A.
; APPLICANT: Wang, Tonglong
; APPLICANT: Jiang, Yugu
; APPLICANT: Smith, Carole L.
; APPLICANT: King, Gordon E.
; APPLICANT: Wang, Aijun
; APPLICANT: Clapper, Jonathan D.
; APPLICANT: Skeiky, Yasir A. W.
; APPLICANT: Fanger, Gary R.
; APPLICANT: Vedvick Thomas S.
; APPLICANT: Carter, Darrick
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND DIAGNOSIS
; TITLE OF INVENTION: OF COLON CANCER AND METHODS FOR THEIR USE
; FILE REFERENCE: 210121.471C15
; CURRENT APPLICATION NUMBER: US/11/108,172
; CURRENT FILING DATE: 2005-04-15
; PRIOR APPLICATION NUMBER: US 10/025,380
; PRIOR FILING DATE: 2001-12-19
; PRIOR APPLICATION NUMBER: US 09/922,217
; PRIOR FILING DATE: 2001-08-03
; PRIOR APPLICATION NUMBER: US 09/833,263
; PRIOR FILING DATE: 2001-04-10
; PRIOR APPLICATION NUMBER: US 09/649,811
; PRIOR FILING DATE: 2000-08-28
; PRIOR APPLICATION NUMBER: US 09/609,448
; PRIOR FILING DATE: 2000-06-29
; PRIOR APPLICATION NUMBER: US 09/575,251
; PRIOR FILING DATE: 2000-05-19
; PRIOR APPLICATION NUMBER: US 09/519,444
; PRIOR FILING DATE: 2000-03-06
; PRIOR APPLICATION NUMBER: US 09/504,629
; PRIOR FILING DATE: 2000-02-15
; PRIOR APPLICATION NUMBER: US 09/480,321
; PRIOR FILING DATE: 2000-01-10
; PRIOR APPLICATION NUMBER: US 09/476,296
; PRIOR FILING DATE: 1999-12-30
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 1130
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 341
; LENGTH: 400
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-11-108-172-341

Query Match      39.7%; Score 23.8; DB 14; Length 400;
Best Local Similarity 62.7%; Pred. No. 47;
Matches 37; Conservative 0; Mismatches 22; Indels 0; Gaps 0;
```

```
QY      1 GGCAGTACTGCACCGCGCATGCGGTACATCAGCACTGATACAGACCTGCACC 59
      |||||
Db      37 GGAAGACAACAGCAGCGGTGACGAGGCTTCTCAACATCAACCCCAAGACCTCGGCC 95
```

```
RESULT 8
US-10-932-182A-4101
; Sequence 4101, Application US/10932182A
; Publication No. US20060046253A1
; GENERAL INFORMATION:
; APPLICANT: NAKAO, YOSHIHIRO
```

```
; APPLICANT: NAKAMURA, NORIHISA
; APPLICANT: KODAMA, YUKIKO
; APPLICANT: FUJIMURA, TOMOKO
; APPLICANT: ASHIKARI, TOSHIHIKO
; TITLE OF INVENTION: METHODS FOR ANALYZING GENES OF INDUSTRIAL YEASTS
; FILE REFERENCE: 030685-043
; CURRENT APPLICATION NUMBER: US/10/932,182A
; CURRENT FILING DATE: 2004-09-02
; NUMBER OF SEQ ID NOS: 197023
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 4101
; LENGTH: 342
; TYPE: DNA
; ORGANISM: Saccharomyces pastorianus
; US-10-932-182A-4101
```

```
Query Match      39.3%; Score 23.6; DB 9; Length 342;
Best Local Similarity 64.8%; Pred. No. 55;
Matches 35; Conservative 0; Mismatches 19; Indels 0; Gaps 0;
```

```
QY      6 TACTGCACCAACCGGCATGCGGTACATCAGCACTGATACAGACCTGCACC 59
      |||||
Db      165 TTCTTCAGCAGCGGCACTGCTTCAACCAAGCTGAGCCTGCTGCGTTACCAAGCACC 218
```

```
RESULT 9
US-10-932-182A-4101
; Sequence 4101, Application US/10932182A
; Publication No. US20060046253A1
; GENERAL INFORMATION:
; APPLICANT: NAKAO, YOSHIHIRO
; APPLICANT: NAKAMURA, NORIHISA
; APPLICANT: KODAMA, YUKIKO
; APPLICANT: FUJIMURA, TOMOKO
; APPLICANT: ASHIKARI, TOSHIHIKO
; TITLE OF INVENTION: METHODS FOR ANALYZING GENES OF INDUSTRIAL YEASTS
; FILE REFERENCE: 030685-043
; CURRENT APPLICATION NUMBER: US/10/932,182A
; CURRENT FILING DATE: 2004-09-02
; NUMBER OF SEQ ID NOS: 197023
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 4101
; LENGTH: 342
; TYPE: DNA
; ORGANISM: Saccharomyces pastorianus
; US-10-932-182A-4101
```

```
Query Match      39.3%; Score 23.6; DB 9; Length 342;
Best Local Similarity 64.8%; Pred. No. 55;
Matches 35; Conservative 0; Mismatches 19; Indels 0; Gaps 0;
```

```
QY      6 TACTGCACCAACCGGCATGCGGTACATCAGCACTGATACAGACCTGCACC 59
      |||||
Db      165 TTCTTCAGCAGCGGCACTGCTTCAACCAAGCTGAGCCTGCTGCGTTACCAAGCACC 218
```

```
RESULT 10
US-10-301-480-256472/c
; Sequence 256472, Application US/10301480
; Publication No. US20060057564A1
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single Nucleotide Polymorphisms
; FILE REFERENCE: 108827.137
; CURRENT APPLICATION NUMBER: US/10/301,480
; CURRENT FILING DATE: 2002-11-21
; PRIOR APPLICATION NUMBER: US 10/215,598
; PRIOR FILING DATE: 2002-08-09
; PRIOR APPLICATION NUMBER: US 60/311,695
; PRIOR FILING DATE: 2001-08-10
; NUMBER OF SEQ ID NOS: 1226818
; SOFTWARE: FastSeq for Windows Version 4.0
```

```
; SEQ ID NO 256472
; LENGTH: 495
; TYPE: DNA
; ORGANISM: Homo sapien
US-10-301-480-256472
```

```
Query Match      37.3%; Score 22.4; DB 10; Length 495;
Best Local Similarity 62.5%; Pred. No. 1.6e+02;
Matches 35; Conservative 0; Mismatches 21; Indels 0; Gaps 0;
```

```
QY      1 GGCAGTACTGCACCAACCGGCACATGCGGTACATCAGCACCTGATACAGACCTGC 56
          ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db      162 GGCAGTGTGCCCCCACCCTGAATTGTGACTGTGAAGCCCTTGCTCTAGGCATGC 107
```

RESULT 11

```
US-10-301-480-256473/c
; Sequence 256473, Application US/10301480
; Publication No. US20060057564A1
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single Nucleotide Polymorphisms
; FILE REFERENCE: 108827.137
; CURRENT APPLICATION NUMBER: US/10/301,480
; PRIOR FILING DATE: 2002-11-21
; PRIOR APPLICATION NUMBER: US 10/215,598
; PRIOR FILING DATE: 2002-08-09
; PRIOR APPLICATION NUMBER: US 60/311,695
; NUMBER OF SEQ ID NOS: 1226818
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 256473
; LENGTH: 495
; TYPE: DNA
; ORGANISM: Homo sapien
US-10-301-480-256473
```

```
Query Match      37.3%; Score 22.4; DB 10; Length 495;
Best Local Similarity 62.5%; Pred. No. 1.6e+02;
Matches 35; Conservative 0; Mismatches 21; Indels 0; Gaps 0;
```

```
QY      1 GGCAGTACTGCACCAACCGGCACATGCGGTACATCAGCACCTGATACAGACCTGC 56
          ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db      162 GGCAGTGTGCCCCCACCCTGAATTGTGACTGTGAAGCCCTTGCTCTAGGCATGC 107
```

RESULT 12

```
US-10-301-480-869881/c
; Sequence 869881, Application US/10301480
; Publication No. US20060057564A1
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single Nucleotide Polymorphisms
; FILE REFERENCE: 108827.137
; CURRENT APPLICATION NUMBER: US/10/301,480
; PRIOR FILING DATE: 2002-11-21
; PRIOR APPLICATION NUMBER: US 10/215,598
; PRIOR FILING DATE: 2002-08-09
; PRIOR APPLICATION NUMBER: US 60/311,695
; NUMBER OF SEQ ID NOS: 1226818
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 869881
; LENGTH: 495
; TYPE: DNA
; ORGANISM: Homo sapien
US-10-301-480-869881
```

```
Query Match      37.3%; Score 22.4; DB 10; Length 495;
Best Local Similarity 62.5%; Pred. No. 1.6e+02;
Matches 35; Conservative 0; Mismatches 21; Indels 0; Gaps 0;
```

```
QY      1 GGCAGTACTGCACCAACCGGCACATGCGGTACATCAGCACCTGATACAGACCTGC 56
          ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db      162 GGCAGTGTGCCCCCACCCTGAATTGTGACTGTGAAGCCCTTGCTCTAGGCATGC 107
```

RESULT 13

```
US-10-301-480-869882/c
; Sequence 869882, Application US/10301480
; Publication No. US20060057564A1
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single Nucleotide Polymorphisms
; FILE REFERENCE: 108827.137
; CURRENT APPLICATION NUMBER: US/10/301,480
; PRIOR FILING DATE: 2002-11-21
; PRIOR APPLICATION NUMBER: US 10/215,598
; PRIOR FILING DATE: 2002-08-09
; PRIOR APPLICATION NUMBER: US 60/311,695
; NUMBER OF SEQ ID NOS: 1226818
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 869882
; LENGTH: 495
; TYPE: DNA
; ORGANISM: Homo sapien
US-10-301-480-869882
```

```
Query Match      37.3%; Score 22.4; DB 10; Length 495;
Best Local Similarity 62.5%; Pred. No. 1.6e+02;
Matches 35; Conservative 0; Mismatches 21; Indels 0; Gaps 0;
```

```
QY      1 GGCAGTACTGCACCAACCGGCACATGCGGTACATCAGCACCTGATACAGACCTGC 56
          ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db      162 GGCAGTGTGCCCCCACCCTGAATTGTGACTGTGAAGCCCTTGCTCTAGGCATGC 107
```

RESULT 14

```
US-09-925-065A-164106/c
; Sequence 164106, Application US/09925065A
; Publication No. US20040181048A1
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Nucleotide Polymorphisms in the Human Genome
; FILE REFERENCE: 108827.135
; CURRENT APPLICATION NUMBER: US/09/925,065A
; CURRENT FILING DATE: 2001-08-08
; PRIOR FILING DATE: 2001-10-24
; PRIOR APPLICATION NUMBER: US 60/243,096
; PRIOR FILING DATE: 2000-11-20
; PRIOR APPLICATION NUMBER: US 60/252,147
; PRIOR FILING DATE: 2000-11-30
; PRIOR APPLICATION NUMBER: US 60/250,092
; PRIOR FILING DATE: 2001-01-16
; PRIOR APPLICATION NUMBER: US 60/261,766
; PRIOR FILING DATE: 2001-05-09
; PRIOR APPLICATION NUMBER: US 60/289,846
; NUMBER OF SEQ ID NOS: 957086
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 164106
; LENGTH: 496
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-925-065A-164106
```

```
Query Match      37.3%; Score 22.4; DB 6; Length 496;
Best Local Similarity 62.5%; Pred. No. 1.6e+02;
Matches 35; Conservative 0; Mismatches 21; Indels 0; Gaps 0;
```

```
QY      1 GGCAGTACTGCACCAACCGGCACATGCGGTACATCAGCACCTGATACAGACCTGC 56
          ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
```

Db 163 GGCACTGCTGCCCCACCTGATTGTGATGATCTGAAGCCCTTGCTCCTAGGCATGC 108

RESULT 15

US-09-925-065A-164107/c
 ; Sequence 164107, Application US/09925065A
 ; Publication No. US20040181048A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Wang, David G.
 ; TITLE OF INVENTION: Identification and Mapping of Single
 ; TITLE OF INVENTION: Nucleotide Polymorphisms in the Human Genome
 ; FILE REFERENCE: 108827.135
 ; CURRENT APPLICATION NUMBER: US/09/925,065A
 ; CURRENT FILING DATE: 2001-08-08
 ; PRIOR APPLICATION NUMBER: US 60/243,096
 ; PRIOR FILING DATE: 2000-10-24
 ; PRIOR APPLICATION NUMBER: US 60/252,147
 ; PRIOR FILING DATE: 2000-11-20
 ; PRIOR APPLICATION NUMBER: US 60/250,092
 ; PRIOR FILING DATE: 2000-11-30
 ; PRIOR APPLICATION NUMBER: US 60/261,766
 ; PRIOR FILING DATE: 2001-01-16
 ; PRIOR APPLICATION NUMBER: US 60/289,846
 ; PRIOR FILING DATE: 2001-05-09
 ; NUMBER OF SEQ ID NOS: 957086
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 164107
 ; LENGTH: 496
 ; TYPE: DNA
 ; ORGANISM: Homo sapiens
 US-09-925-065A-164107

Query Match 37.3%; Score 22.4; DB 6; Length 496;
 Best Local Similarity 62.5%; Pred. No. 1.6e+02;
 Matches 35; Conservative 0; Mismatches 21; Indels 0; Gaps 0;

QY 1 GGCACTGCTGCCCCACCTGATTGTGATGATCTGAAGCCCTTGCTCCTAGGCATGC 56
 163 GGCACTGCTGCCCCACCTGATTGTGATGATCTGAAGCCCTTGCTCCTAGGCATGC 108

Search completed: March 27, 2006, 14:47:10
 Job time : 321.3 secs

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```
; TYPE: DNA
; ORGANISM: Myxococcus xanthus
US-09-902-540-2920

Query Match      45.0%; Score 27; DB 3; Length 222;
Best Local Similarity 66.1%; Pred. No. 37;
Matches 39; Conservative 0; Mismatches 20; Indels 0; Gaps 0;

QY      1 GGATCCACCGCGCGCTGCGCAGAGTACGTCGCGCCCGACACGCGCCGCTCC 59
DB      178 GCATCCAGCGCACCACTGGGAGCAGAACCAAGCCGGCGCCCGCTGCTCCAGGTCC 120

RESULT 3
US-09-252-991A-441
; Sequence 441, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; PRIOR FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 441
; LENGTH: 357
; TYPE: DNA
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-441

Query Match      41.3%; Score 24.8; DB 3; Length 357;
Best Local Similarity 63.3%; Pred. No. 1.5e+02;
Matches 38; Conservative 0; Mismatches 22; Indels 0; Gaps 0;

QY      1 GGATCCACCGCGCGCTGCGCAGAGTACGTCGCGCCCGACACGCGCCGCTCC 60
DB      252 GGACTCTCCGAGCGCTTGCCCGCGCTGTGAGGCTGCGGCTACAGCCAGCCCACTCC 311

RESULT 4
US-09-252-991A-2229
; Sequence 2229, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; PRIOR FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 2229
; LENGTH: 333
; TYPE: DNA
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-2229

Query Match      40.3%; Score 24.2; DB 3; Length 333;
Best Local Similarity 66.0%; Pred. No. 2.2e+02;
Matches 35; Conservative 0; Mismatches 18; Indels 0; Gaps 0;

QY      8 CCGCGCGCGCTGCGCAGAGTACGTCGCGCCCGACACGCGCCGCTCC 60
DB      114 CTGCGCCTGCTGCGCGCGCAGTGCCGATTGCTCGACGACGCGCGCTCTCC 166
```

```
RESULT 5
US-09-902-540-4254/C
; Sequence 4254, Application US/09902540
; Patent No. 6833447
; GENERAL INFORMATION:
; APPLICANT: Goldman, Barry S.
; APPLICANT: Hinkle, Gregory J.
; APPLICANT: Slater, Steven C.
; APPLICANT: Wiegand, Roger C.
; TITLE OF INVENTION: Myxococcus xanthus Genome Sequences and Uses Thereof
; FILE REFERENCE: 38-10(15849)B
; CURRENT APPLICATION NUMBER: US/09/902,540
; PRIOR FILING DATE: 2001-07-10
; PRIOR APPLICATION NUMBER: 60/217,883
; PRIOR FILING DATE: 2000-07-10
; NUMBER OF SEQ ID NOS: 16825
; SEQ ID NO 4254
; LENGTH: 462
; TYPE: DNA
; ORGANISM: Myxococcus xanthus
US-09-902-540-4254

Query Match      39.3%; Score 23.6; DB 3; Length 462;
Best Local Similarity 64.8%; Pred. No. 3.3e+02;
Matches 35; Conservative 0; Mismatches 19; Indels 0; Gaps 0;

QY      2 GATCCACCGCGCGCTGCGCAGAGTACGTCGCGCCCGACACGCGCCCG 55
DB      217 GGTCTGCGTGGCGCCTCTCTCCAGGTCGACGTCGAGAGGTGAGGCGCCCG 164

RESULT 6
US-09-252-991A-12803/C
; Sequence 12803, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; PRIOR FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 12803
; LENGTH: 444
; TYPE: DNA
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-12803

Query Match      39.0%; Score 23.4; DB 3; Length 444;
Best Local Similarity 67.3%; Pred. No. 3.7e+02;
Matches 33; Conservative 0; Mismatches 16; Indels 0; Gaps 0;

QY      4 TCCACCGCGCGCTGCGCAGAGTACGTCGCGCCCGACACGCGCC 52
DB      257 TCCAGCGCGAGCGCTGCGCGGATTGACGTCGAGGCGAAGACGAGAC 209

RESULT 7
US-09-861-893-74
; Sequence 74, Application US/09861893
; Patent No. 6960434
; GENERAL INFORMATION:
; APPLICANT: Feinberg, Andrew
; APPLICANT: Strichman-Almashanu, Liora
; APPLICANT: Jiang, Shan
; TITLE OF INVENTION: METHODS FOR ASSAYING GENE IMPRINTING AND
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; TITLE OF INVENTION: METHYLATED CPG ISLANDS
; FILE REFERENCE: 01107.00128
; CURRENT APPLICATION NUMBER: US/09/861,893
; CURRENT FILING DATE: 2001-05-22
; PRIOR APPLICATION NUMBER: 60/206,158
; PRIOR FILING DATE: 2000-05-22
; PRIOR APPLICATION NUMBER: 60/206,161
; PRIOR FILING DATE: 2000-05-22
; NUMBER OF SEQ ID NOS: 77
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 74
; LENGTH: 415
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (1)...(415)
; OTHER INFORMATION: n = A,T,C or G
US-09-861-893-74
```

```
Query Match      38.7%; Score 23.2; DB 3; Length 415;
Best Local Similarity 64.2%; Pred. No. 4.3e+02;
Matches 34; Conservative 0; Mismatches 19; Indels 0; Gaps 0;
```

```
QY      3 ATCCACCGCGCGCGCTGGCGCAGGAGTGACGTGCGCGCGCGGACACGCGCGCGG 55
      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db      254 AGCAGCCACCGCGCGCTGTGGGAAGTGAGGAGCGTCTCCGNCGGCGGACGCGCGCGG 306
```

RESULT 8

```
US-09-902-540-7057
; Sequence 7057, Application US/09902540
; Patent No. 6833447
; GENERAL INFORMATION:
```

```
; APPLICANT: Goldman, Barry S.
; APPLICANT: Hinkle, Gregory J.
; APPLICANT: Slater, Steven C.
; APPLICANT: Wiegand, Roger C.
; TITLE OF INVENTION: Myxococcus xanthus Genome Sequences and Uses Thereof
; FILE REFERENCE: 38-10(15849)B
; CURRENT APPLICATION NUMBER: US/09/902,540
; CURRENT FILING DATE: 2001-07-10
; PRIOR APPLICATION NUMBER: 60/217,883
; PRIOR FILING DATE: 2000-07-10
; NUMBER OF SEQ ID NOS: 16825
; SEQ ID NO 7057
; LENGTH: 427
; TYPE: DNA
; ORGANISM: Myxococcus xanthus
US-09-902-540-7057
```

```
Query Match      38.7%; Score 23.2; DB 3; Length 427;
Best Local Similarity 65.4%; Pred. No. 4.3e+02;
Matches 34; Conservative 0; Mismatches 18; Indels 0; Gaps 0;
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```
QY      5 CCACCGCGCGCGCTGGCGCAGGAGTGAGTGGCGCGCGCGACACGCGCGCGCG 56
      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db      333 CGAGCGCGCGCGCGCGCAACCGGAGCAGCGCGCGCGCGCTGACGAGCGCGCG 384
```

RESULT 9

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US-09-489-039A-1211/c
; Sequence 1211, Application US/09489039A
; Patent No. 6610836
; GENERAL INFORMATION:
```

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; APPLICANT: Gary Breton et. al
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO KLEBSIELLA
; FILE REFERENCE: 2709.2004001
; CURRENT APPLICATION NUMBER: US/09/489,039A
; CURRENT FILING DATE: 2000-01-27
; PRIOR APPLICATION NUMBER: US 60/117,747
; PRIOR FILING DATE: 1999-01-29
```

```
; NUMBER OF SEQ ID NOS: 14342
; SEQ ID NO 1211
; LENGTH: 429
; TYPE: DNA
; ORGANISM: Klebsiella pneumoniae
US-09-489-039A-1211
```

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Query Match      38.7%; Score 23.2; DB 3; Length 429;
Best Local Similarity 61.7%; Pred. No. 4.3e+02;
Matches 37; Conservative 0; Mismatches 23; Indels 0; Gaps 0;
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```
QY      1 GGATCCACCGCGCGCGCTGGCGCAGGAGTGACGTGCGCGCGCGGACACGCGCGCGCTCCC 60
      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db      237 GGACGAACGCGCGCGCGCGCGCGCGGTGACCGCCACCCAGCGCGCGCGGATGCGC 178
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RESULT 10

```
US-09-252-991A-10114/c
; Sequence 10114, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
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```
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 10114
; LENGTH: 291
; TYPE: DNA
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-10114
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Query Match      38.3%; Score 23; DB 3; Length 291;
Best Local Similarity 68.1%; Pred. No. 5e+02;
Matches 32; Conservative 0; Mismatches 15; Indels 0; Gaps 0;
```

```
QY      6 CACCGCGCGCGCTGGCGCAGGAGTGACGTGCGCGCGCGGACACGCGCGCG 52
      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db      284 CACGTGCGCGCGCATGCACCGCGCGCTGCTCGGCCACCGACACCTGCGC 238
```

RESULT 11

```
US-09-056-556-157/c
; Sequence 157, Application US/09056556
; Patent No. 6350456
; GENERAL INFORMATION:
```

```
; APPLICANT: Reed, Steven G.
; APPLICANT: Skeiky, Yasir A.W.
; APPLICANT: Dillon, Davin C.
; TITLE OF INVENTION: COMPOUNDS AND METHODS FOR THE PREVENTION AND
; NUMBER OF SEQUENCES: 241
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: SEED and BERRY LLP
; STREET: 6300 Columbia Center, 701 Fifth Avenue
; CITY: Seattle
; STATE: Washington
; COUNTRY: USA
; ZIP: 98104-7092
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/056,556
; FILING DATE: 07-APR-1998
; CLASSIFICATION:
```

TREATM

ATTORNEY/AGENT INFORMATION:
NAME: Maki, David J.
REGISTRATION NUMBER: 31,392
REFERENCE/DOCKET NUMBER: 210121.457
TELECOMMUNICATION INFORMATION:
TELEPHONE: (206) 622-4900
TELEFAX: (206) 682-6031
INFORMATION FOR SEQ ID NO: 157:
SEQUENCE CHARACTERISTICS:
LENGTH: 324 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
US-09-056-157

Query Match 38.3%; Score 23; DB 3; Length 324;
Best Local Similarity 68.1%; Pred. No. 4.9e+02;
Matches 32; Conservative 0; Mismatches 15; Indels 0; Gaps 0;

QY 6 CACCGCGCCGCTGCGCAGGAGTGACGTGCGCGCCGACACGCGCC 52
DB 287 CACCGCGCCGCGCTGCTGCACCGGAGTACCACTGTGAGCAGACGCGCC 241

RESULT 12

US-09-072-596-152/c
Sequence 152, Application US/09072596
Patent No. 6458366

GENERAL INFORMATION:
APPLICANT: Reed, Steven G.
APPLICANT: Skeiky, Yasir A.W.
APPLICANT: Dillon, Davin C.
APPLICANT: Campos-Neto, Antonio
APPLICANT: Houghton, Raymond
APPLICANT: Vedvick, Thomas S.
APPLICANT: Twardzik, Daniel R.
APPLICANT: Lodes, Michael J.
APPLICANT: Hendrickson, Ronald C.
TITLE OF INVENTION: COMPOUNDS AND METHODS FOR DIAGNOSIS OF
NUMBER OF SEQUENCES: 350
CORRESPONDENCE ADDRESS:
ADDRESSEE: SEED and BERRY LLP
STREET: 6300 Columbia Center, 701 Fifth Avenue
CITY: Seattle
STATE: Washington
COUNTRY: USA
ZIP: 98104-7092

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/072,596
FILING DATE: 05-MAY-1998

CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: Maki, David J.
REGISTRATION NUMBER: 31,392
REFERENCE/DOCKET NUMBER: 210121.417C9
TELECOMMUNICATION INFORMATION:
TELEPHONE: (206) 622-4900
TELEFAX: (206) 682-6031
INFORMATION FOR SEQ ID NO: 152:
SEQUENCE CHARACTERISTICS:
LENGTH: 324 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
US-09-072-596-152

Query Match 38.3%; Score 23; DB 3; Length 324;
Best Local Similarity 68.1%; Pred. No. 4.9e+02;

Matches 32; Conservative 0; Mismatches 15; Indels 0; Gaps 0;

QY 6 CACCGCGCCGCTGCGCAGGAGTGACGTGCGCGCCGACACGCGCC 52
DB 287 CACCGCGCCGCGCTGCTGCACCGGAGTACCACTGTGAGCAGACGCGCC 241

RESULT 13

US-09-072-967-157/c
Sequence 157, Application US/09072967
Patent No. 6592877

GENERAL INFORMATION:
APPLICANT: Reed, Steven G.
APPLICANT: Skeiky, Yasir A.W.
APPLICANT: Dillon, Davin C.
APPLICANT: Campos-Neto, Antonio
APPLICANT: Houghton, Raymond
APPLICANT: Vedvick, Thomas S.
APPLICANT: Twardzik, Daniel R.
APPLICANT: Lodes, Michael J.
APPLICANT: Hendrickson, Ronald C.
TITLE OF INVENTION: AND DIAGNOSIS OF TUBERCULOSIS
NUMBER OF SEQUENCES: 355
CORRESPONDENCE ADDRESS:
ADDRESSEE: SEED and BERRY LLP
STREET: 6300 Columbia Center, 701 Fifth Avenue
CITY: Seattle
STATE: Washington
COUNTRY: USA
ZIP: 98104-7092

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/072,967
FILING DATE: 05-MAY-1998

CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: Maki, David J.
REGISTRATION NUMBER: 31,392
REFERENCE/DOCKET NUMBER: 210121.411C9
TELECOMMUNICATION INFORMATION:
TELEPHONE: (206) 622-4900
TELEFAX: (206) 682-6031
INFORMATION FOR SEQ ID NO: 157:
SEQUENCE CHARACTERISTICS:
LENGTH: 324 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
US-09-072-967-157

Query Match 38.3%; Score 23; DB 3; Length 324;
Best Local Similarity 68.1%; Pred. No. 4.9e+02;
Matches 32; Conservative 0; Mismatches 15; Indels 0; Gaps 0;

QY 6 CACCGCGCCGCTGCGCAGGAGTGACGTGCGCGCCGACACGCGCC 52
DB 287 CACCGCGCCGCGCTGCTGCACCGGAGTACCACTGTGAGCAGACGCGCC 241

RESULT 14

US-10-193-002-152/c
Sequence 152, Application US/10193002
Patent No. 6949246

GENERAL INFORMATION:
APPLICANT: Reed, Steven G.
APPLICANT: Skeiky, Yasir A.W.
APPLICANT: Dillon, Davin C.
APPLICANT: Campos-Neto, Antonio

```

/ Houghton, Raymond
/ Vedvick, Thomas S.
/ Twardzik, Daniel R.
/ Lodes, Michael J.
/ Hendrickson, Ronald C.
/ TITLE OF INVENTION: COMPOUNDS AND METHODS FOR DIAGNOSIS OF
/ TUBERCULOSIS
/ NUMBER OF SEQUENCES: 350
/ CORRESPONDENCE ADDRESS:
/ ADDRESSEE: SEED and BERRY LLP
/ STREET: 6300 Columbia Center, 701 Fifth Avenue
/ CITY: Seattle
/ STATE: Washington
/ COUNTRY: USA
/ ZIP: 98104-7092
/
/ COMPUTER READABLE FORM:
/ MEDIUM TYPE: Floppy disk
/ COMPUTER: IBM PC compatible
/ OPERATING SYSTEM: PC-DOS/MS-DOS
/ SOFTWARE: PatentIn Release #1.0, Version #1.30
/
/ CURRENT APPLICATION DATA:
/ APPLICATION NUMBER: US/10/193,002
/ FILING DATE: 10-Jul-2002
/ CLASSIFICATION: <Unknown>
/
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: US/09/072,596
/ FILING DATE: 05-MAY-1998
/
/ ATTORNEY/AGENT INFORMATION:
/ NAME: Maki, David J.
/ REGISTRATION NUMBER: 31,392
/ REFERENCE/DOCKET NUMBER: 210121.417C9
/
/ TELECOMMUNICATION INFORMATION:
/ TELEPHONE: (206) 622-4900
/ TELEFAX: (206) 682-6031
/
/ INFORMATION FOR SEQ ID NO: 152:
/ SEQUENCE CHARACTERISTICS:
/ LENGTH: 324 base pairs
/ TYPE: nucleic acid
/ STRANDEDNESS: single
/ TOPOLOGY: linear
/
/ SEQUENCE DESCRIPTION: SEQ ID NO: 152:
/
US-10-193-002-152
/
Query Match 38.3%; Score 23; DB 3; Length 324;
Best Local Similarity 68.1%; Pred. No. 4.9e+02;
Matches 32; Conservative 0; Mismatches 15; Indels 0; Gaps 0
QY 6 CACCGCGCCGCTGTCGACGAGTGACGTGCGGCCGACACGCGCC 52
| | | | | | | | | | | | | | | | | | | | | | | |
DB 287 CACCGCGCCGCTGTCGACGAGTACCACTGTGACGACACGCGCC 241
/
RESULT 15
US-10-084-843-157/c
/ Sequence 157, Application US/10084843
/ Patent No. 6962710
/ GENERAL INFORMATION:
/ APPLICANT: Reed, Steven G.
/ Skeiky, Yasir A.W.
/ Dillon, Davin C.
/ Campos-Neto, Antonio
/ Houghton, Raymond
/ Vedvick, Thomas S.
/ Twardzik, Daniel R.
/ Lodes, Michael J.
/ Hendrickson, Ronald C.
/ TITLE OF INVENTION: COMPOUNDS AND METHODS FOR IMMUNOTHERAPY
/ AND DIAGNOSIS OF TUBERCULOSIS
/ NUMBER OF SEQUENCES: 355
/ CORRESPONDENCE ADDRESS:
/ ADDRESSEE: SEED and BERRY LLP
/ STREET: 6300 Columbia Center, 701 Fifth Avenue
/ CITY: Seattle
/

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; STATE: Washington
; COUNTRY: USA
; ZIP: 98104-7092
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/10/084,843
; FILING DATE: 25-Feb-2002
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/09/072,967
; FILING DATE: 05-MAY-1998
; ATTORNEY/AGENT INFORMATION:
; NAME: Makl, David J.
; REGISTRATION NUMBER: 31,392
; REFERENCE/DOCKET NUMBER: 210121.411C9
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (206) 622-4900
; TELEFAX: (206) 682-6031
; INFORMATION FOR SEQ ID NO: 157:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 324 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; SEQUENCE DESCRIPTION: SEQ ID NO: 157:
US-10-084-843-157

Query Match          38.3%; Score 23; DB 3; Length 324;
Best Local Similarity 68.1%; Pred. No. 4.9e+02;
Matches    32; Conservative   0; Mismatches   15; Indels      0; Gaps      0;;

QY      6 CACCGGCGCCCTGGCGCACGCAGTGACGTGCGGCCCGGACACGCGCC 52
        |||||
DB      287 CACCGGCGCCGTCGTACCGGAGTACCACACTGTGGACGACACGCGCC 241

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Job time : 56.5 secs

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OM nucleic - nucleic search, using bw model

Run on: March 27, 2006, 13:48:29 ; Search time 55.5 Seconds
(without alignments)
1921.688 Million cell updates/sec

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Perfect score: 60
Sequence: 1 GGCACTACTGCACCAACCGGC.....CTGATACAGACCTGCACCT 60

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 1303057 seqs, 888780828 residues

Total number of hits satisfying chosen parameters: 1790828

Minimum DB seq length: 0
Maximum DB seq length: 500

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	26.8	44.7	78	3	US-09-304-967-94 Sequence 94, Appl
2	26.8	44.7	78	3	US-09-304-967-96 Sequence 96, Appl
3	25.8	43.0	68	3	US-09-304-967-51 Sequence 51, Appl
4	25.8	43.0	68	3	US-09-304-967-55 Sequence 55, Appl
5	25.8	43.0	68	3	US-09-304-967-57 Sequence 57, Appl
6	25.8	43.0	78	3	US-09-304-967-100 Sequence 100, Appl
7	25.8	43.0	83	3	US-09-304-967-79 Sequence 79, Appl
8	25.8	43.0	489	3	US-09-270-767-10939 Sequence 10939, A
9	25.6	42.7	83	3	US-09-304-967-75 Sequence 75, Appl
10	25.2	42.0	68	3	US-09-304-967-53 Sequence 53, Appl
11	24.8	41.3	48	3	US-09-304-967-47 Sequence 47, Appl
12	24.8	41.3	48	3	US-09-304-967-67 Sequence 67, Appl
13	24.8	41.3	48	3	US-09-304-967-90 Sequence 90, Appl
14	24.8	41.3	68	3	US-09-304-967-49 Sequence 49, Appl
15	24.8	41.3	78	3	US-09-304-967-92 Sequence 92, Appl
16	24.8	41.3	78	3	US-09-304-967-98 Sequence 98, Appl
17	24.8	41.3	78	3	US-09-304-967-102 Sequence 102, Appl
18	24.8	41.3	83	3	US-09-304-967-69 Sequence 69, Appl
19	24.8	41.3	83	3	US-09-304-967-71 Sequence 71, Appl
20	24.8	41.3	83	3	US-09-304-967-73 Sequence 73, Appl
21	24.8	41.3	83	3	US-09-304-967-77 Sequence 77, Appl
22	24.6	41.0	318	3	US-09-489-039A-3181 Sequence 3181, Ap
23	24.2	40.3	60	3	US-09-475-947A-246 Sequence 246, App
24	23.8	39.7	400	3	US-09-401-064-341 Sequence 341, App

C	25	23.8	39.7	463	3	US-09-841-334A-7	Sequence 7, Appli
C	26	23.8	39.7	463	3	US-09-837-969A-7	Sequence 7, Appli
C	27	23.6	39.3	165	2	US-08-209-747-5	Sequence 5, Appli
C	28	23.6	39.3	165	2	US-08-458-298-5	Sequence 5, Appli
C	29	23.2	38.7	305	4	US-09-605-703B-1337	Sequence 1337, Ap
C	30	23.2	38.7	305	4	US-09-605-703B-1339	Sequence 1339, Ap
C	31	23	38.3	93	3	US-09-270-767-5702	Sequence 5702, Ap
C	32	23	38.3	93	3	US-09-270-767-20984	Sequence 20984, A
C	33	23	38.3	402	3	US-09-489-039A-3708	Sequence 3708, Ap
C	34	22.8	38.0	94	3	US-08-464-700-18	Sequence 18, Appl
C	35	22.8	38.0	96	3	US-08-464-700-43	Sequence 43, Appl
C	36	22.8	38.0	349	3	US-09-270-767-7333	Sequence 7333, Ap
C	37	22.8	38.0	349	3	US-09-270-767-22615	Sequence 22615, A
C	38	22.2	37.0	93	3	US-08-556-978B-67	Sequence 67, Appl
C	39	22.2	37.0	93	3	US-08-556-978B-68	Sequence 68, Appl
C	40	22.2	37.0	293	3	US-09-270-767-6722	Sequence 6722, Ap
C	41	22.2	37.0	293	3	US-09-270-767-22004	Sequence 22004, A
C	42	22.2	37.0	303	3	US-08-556-978B-82	Sequence 82, Appl
C	43	22.2	37.0	357	3	US-09-252-991A-4463	Sequence 4463, Ap
C	44	22	36.7	210	3	US-09-328-352-666	Sequence 666, App
C	45	21.8	36.3	353	3	US-09-513-999C-13123	Sequence 13123, A

ALIGNMENTS

RESULT 1
US-09-304-967-94
; Sequence 94, Application US/09304967
; Patent No. 6884623
; GENERAL INFORMATION:
; APPLICANT: Lomonosoff, George P.
; APPLICANT: Johnson, John E.
; APPLICANT: Bendig, Mary
; APPLICANT: Jones, Tim
; APPLICANT: Longstaff, Marian
; TITLE OF INVENTION: Modified Plant Viruses as Vectors of Heterologous
; TITLE OF INVENTION: Peptides
; FILE REFERENCE: DOM-04646
; CURRENT APPLICATION NUMBER: US/09/304,967
; PRIOR FILING DATE: 1999-05-05
; PRIOR APPLICATION NUMBER: 08/471,048
; PRIOR FILING DATE: 1995-06-06
; PRIOR APPLICATION NUMBER: 08/612,858
; PRIOR FILING DATE: 1996-03-12
; PRIOR APPLICATION NUMBER: 08/137,032
; PRIOR FILING DATE: 1993-03-18
; PRIOR APPLICATION NUMBER: PCT/GB20/00589
; PRIOR FILING DATE: 1992-04-02
; NUMBER OF SEQ ID NOS: 123
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 94
; LENGTH: 78
; TYPE: DNA
; ORGANISM: Red clover necrotic mosaic virus
; US-09-304-967-94

Query Match 44.7%; Score 26.8; DB 3; Length 78;
Best local Similarity 73.9%; Pred. No. 3.2;
Matches 34; Conservative 0; Mismatches 12; Indels 0; Gaps 0;

QY 15 ACCGGACATGGCGTAACATCAGCACTGATACAGACCTGCACCT 60
Db 4 AACTGTATTGGTGTCTTCTCTCTGATACTAGACCTGCTCT 49

RESULT 2
US-09-304-967-96
; Sequence 96, Application US/09304967
; Patent No. 6884623
; GENERAL INFORMATION:
; APPLICANT: Lomonosoff, George P.
; APPLICANT: Johnson, John E.


```

; APPLICANT: Bendig, Mary
; APPLICANT: Jones, Tim
; APPLICANT: Longstaff, Marian
; TITLE OF INVENTION: Modified Plant Viruses as Vectors of Heterologous
; FILE REFERENCE: DOW-04646
; CURRENT APPLICATION NUMBER: US/09/304,967
; CURRENT FILING DATE: 1999-05-05
; PRIOR APPLICATION NUMBER: 08/471,048
; PRIOR FILING DATE: 1995-06-06
; PRIOR APPLICATION NUMBER: 08/612,858
; PRIOR FILING DATE: 1996-03-12
; PRIOR APPLICATION NUMBER: 08/137,032
; PRIOR FILING DATE: 1993-03-18
; PRIOR APPLICATION NUMBER: PCT/GB20/00589
; PRIOR FILING DATE: 1992-04-02
; NUMBER OF SEQ ID NOS: 123
; SOFTWARE: Patentln Ver. 2.0
; SEQ ID NO 96
; LENGTH: 78
; TYPE: DNA
; ORGANISM: Red clover necrotic mosaic virus
US-09-304-967-96

```

```

Query Match      44.7%; Score 26.8; DB 3; Length 78;
Best Local Similarity 81.6%; Pred. No. 3.2;
Matches 31; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

```

```

QY      23 ATGGCGTACATCAGACCTGATACAAGACCTGCACCT 60
DB      15 ATGGTGTACTTCTGCTCCTGATACTAGACCTGCTCCT 52

```

```

RESULT 3
US-09-304-967-51
; Sequence 51, Application US/09304967
; Patent No. 6884623
; GENERAL INFORMATION:
; APPLICANT: Lomonosoff, George P.
; APPLICANT: Johnson, John E.
; APPLICANT: Bendig, Mary
; APPLICANT: Jones, Tim
; APPLICANT: Longstaff, Marian
; TITLE OF INVENTION: Modified Plant Viruses as Vectors of Heterologous
; FILE REFERENCE: DOW-04646
; CURRENT APPLICATION NUMBER: US/09/304,967
; CURRENT FILING DATE: 1999-05-05
; PRIOR APPLICATION NUMBER: 08/471,048
; PRIOR FILING DATE: 1995-06-06
; PRIOR APPLICATION NUMBER: 08/612,858
; PRIOR FILING DATE: 1996-03-12
; PRIOR APPLICATION NUMBER: 08/137,032
; PRIOR FILING DATE: 1993-03-18
; PRIOR APPLICATION NUMBER: PCT/GB20/00589
; PRIOR FILING DATE: 1992-04-02
; NUMBER OF SEQ ID NOS: 123
; SOFTWARE: Patentln Ver. 2.0
; SEQ ID NO 51
; LENGTH: 68
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
US-09-304-967-51

```

```

Query Match      43.0%; Score 25.8; DB 3; Length 68;
Best Local Similarity 81.1%; Pred. No. 7;
Matches 30; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

```

```

QY      24 TGGCGTACATCAGACCTGATACAAGACCTGCACCT 60
DB      8 TGGTGTACTTCTGCTCCTGATACTAGACCTGCTCCT 44

```

```

RESULT 4
US-09-304-967-55
; Sequence 55, Application US/09304967
; Patent No. 6884623
; GENERAL INFORMATION:
; APPLICANT: Lomonosoff, George P.
; APPLICANT: Johnson, John E.
; APPLICANT: Bendig, Mary
; APPLICANT: Jones, Tim
; APPLICANT: Longstaff, Marian
; TITLE OF INVENTION: Modified Plant Viruses as Vectors of Heterologous
; FILE REFERENCE: DOW-04646
; CURRENT APPLICATION NUMBER: US/09/304,967
; CURRENT FILING DATE: 1999-05-05
; PRIOR APPLICATION NUMBER: 08/471,048
; PRIOR FILING DATE: 1995-06-06
; PRIOR APPLICATION NUMBER: 08/612,858
; PRIOR FILING DATE: 1996-03-12
; PRIOR APPLICATION NUMBER: 08/137,032
; PRIOR FILING DATE: 1993-03-18
; PRIOR APPLICATION NUMBER: PCT/GB20/00589
; PRIOR FILING DATE: 1992-04-02
; NUMBER OF SEQ ID NOS: 123
; SOFTWARE: Patentln Ver. 2.0
; SEQ ID NO 55
; LENGTH: 68
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
US-09-304-967-55

```

```

Query Match      43.0%; Score 25.8; DB 3; Length 68;
Best Local Similarity 81.1%; Pred. No. 7;
Matches 30; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

```

```

QY      24 TGGCGTACATCAGACCTGATACAAGACCTGCACCT 60
DB      14 TGGTGTACTTCTGCTCCTGATACTAGACCTGCTCCT 50

```

```

RESULT 5
US-09-304-967-57
; Sequence 57, Application US/09304967
; Patent No. 6884623
; GENERAL INFORMATION:
; APPLICANT: Lomonosoff, George P.
; APPLICANT: Johnson, John E.
; APPLICANT: Bendig, Mary
; APPLICANT: Jones, Tim
; APPLICANT: Longstaff, Marian
; TITLE OF INVENTION: Modified Plant Viruses as Vectors of Heterologous
; FILE REFERENCE: DOW-04646
; CURRENT APPLICATION NUMBER: US/09/304,967
; CURRENT FILING DATE: 1999-05-05
; PRIOR APPLICATION NUMBER: 08/471,048
; PRIOR FILING DATE: 1995-06-06
; PRIOR APPLICATION NUMBER: 08/612,858
; PRIOR FILING DATE: 1996-03-12
; PRIOR APPLICATION NUMBER: 08/137,032
; PRIOR FILING DATE: 1993-03-18
; PRIOR APPLICATION NUMBER: PCT/GB20/00589
; PRIOR FILING DATE: 1992-04-02
; NUMBER OF SEQ ID NOS: 123
; SOFTWARE: Patentln Ver. 2.0
; SEQ ID NO 57
; LENGTH: 68
; TYPE: DNA
; ORGANISM: Artificial Sequence

```

```
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
US-09-304-967-57

Query Match
Best Local Similarity 43.0%; Score 25.8; DB 3; Length 68;
Matches 30; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

QY 24 TGGCGTAACATCAGCACCTGATACAGACCTGCACCT 60
    ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 17 TGGTGTACTTCTGCTCCTGATACAGACCTGCTCCT 53

RESULT 6
US-09-304-967-100
; Sequence 100, Application US/09304967
; Patent No. 6884623
; GENERAL INFORMATION:
; APPLICANT: Lomonosoff, George P.
; APPLICANT: Johnson, John E.
; APPLICANT: Bendig, Mary
; APPLICANT: Jones, Tim
; APPLICANT: Longstaff, Marian
; TITLE OF INVENTION: Modified Plant Viruses as Vectors of Heterologous
; TITLE OF INVENTION: Peptides
; FILE REFERENCE: DOW-04646
; CURRENT APPLICATION NUMBER: US/09/304,967
; PRIOR FILING DATE: 1999-05-05
; PRIOR APPLICATION NUMBER: 08/471,048
; PRIOR FILING DATE: 1995-06-06
; PRIOR APPLICATION NUMBER: 08/612,858
; PRIOR FILING DATE: 1996-03-12
; PRIOR APPLICATION NUMBER: 08/137,032
; PRIOR FILING DATE: 1992-04-02
; PRIOR APPLICATION NUMBER: PCT/GB20/00589
; NUMBER OF SEQ ID NOS: 123
; SOFTWARE: Patentln Ver. 2.0
; SEQ ID NO 100
; LENGTH: 78
; TYPE: DNA
; ORGANISM: Red clover necrotic mosaic virus
US-09-304-967-100

Query Match
Best Local Similarity 43.0%; Score 25.8; DB 3; Length 78;
Matches 30; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

QY 24 TGGCGTAACATCAGCACCTGATACAGACCTGCACCT 60
    ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 22 TGGTGTACTTCTGCTCCTGATACAGACCTGCTCCT 58

RESULT 7
US-09-304-967-79
; Sequence 79, Application US/09304967
; Patent No. 6884623
; GENERAL INFORMATION:
; APPLICANT: Lomonosoff, George P.
; APPLICANT: Johnson, John E.
; APPLICANT: Bendig, Mary
; APPLICANT: Jones, Tim
; APPLICANT: Longstaff, Marian
; TITLE OF INVENTION: Modified Plant Viruses as Vectors of Heterologous
; TITLE OF INVENTION: Peptides
; FILE REFERENCE: DOW-04646
; CURRENT APPLICATION NUMBER: US/09/304,967
; PRIOR FILING DATE: 1999-05-05
; PRIOR APPLICATION NUMBER: 08/471,048
; PRIOR FILING DATE: 1995-06-06
; PRIOR APPLICATION NUMBER: 08/612,858
; PRIOR FILING DATE: 1996-03-12
; PRIOR APPLICATION NUMBER: 08/137,032
; PRIOR FILING DATE: 1992-04-02
; PRIOR APPLICATION NUMBER: 08/137,032
```

```
; PRIOR FILING DATE: 1993-03-18
; PRIOR APPLICATION NUMBER: PCT/GB20/00589
; PRIOR FILING DATE: 1992-04-02
; NUMBER OF SEQ ID NOS: 123
; SOFTWARE: Patentln Ver. 2.0
; SEQ ID NO 79
; LENGTH: 83
; TYPE: DNA
; ORGANISM: Lucerne transient streak virus
US-09-304-967-79

Query Match
Best Local Similarity 43.0%; Score 25.8; DB 3; Length 83;
Matches 30; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

QY 24 TGGCGTAACATCAGCACCTGATACAGACCTGCACCT 60
    ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 24 TGGTGTACTTCTGCTCCTGATACAGACCTGCTCCT 60

RESULT 8
US-09-270-767-10939
; Sequence 10939, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
; APPLICANT: Homburger et al.
; TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
; FILE REFERENCE: File Reference: 7326-094
; CURRENT APPLICATION NUMBER: US/09/270,767
; PRIOR FILING DATE: 1999-03-17
; NUMBER OF SEQ ID NOS: 62517
; SOFTWARE: Patentln Ver. 2.0
; SEQ ID NO 10939
; LENGTH: 489
; TYPE: DNA
; ORGANISM: Drosophila melanogaster
; FEATURE:
; OTHER INFORMATION: n means any nucleotide
US-09-270-767-10939

Query Match
Best Local Similarity 43.0%; Score 25.8; DB 3; Length 489;
Matches 36; Conservative 0; Mismatches 17; Indels 0; Gaps 0;

QY 8 CTGCACCGCCGACATGGCGTAACATCAGCACCTGATACAGACCTGCACCT 60
    ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 304 CAGCAACATCAGCAGCTGCAGCAACATCAGCAGCTGCAGCAACATCAGCAGCT 356

RESULT 9
US-09-304-967-75
; Sequence 75, Application US/09304967
; Patent No. 6884623
; GENERAL INFORMATION:
; APPLICANT: Lomonosoff, George P.
; APPLICANT: Johnson, John E.
; APPLICANT: Bendig, Mary
; APPLICANT: Jones, Tim
; APPLICANT: Longstaff, Marian
; TITLE OF INVENTION: Modified Plant Viruses as Vectors of Heterologous
; TITLE OF INVENTION: Peptides
; FILE REFERENCE: DOW-04646
; CURRENT APPLICATION NUMBER: US/09/304,967
; PRIOR FILING DATE: 1999-05-05
; PRIOR APPLICATION NUMBER: 08/471,048
; PRIOR FILING DATE: 1995-06-06
; PRIOR APPLICATION NUMBER: 08/612,858
; PRIOR FILING DATE: 1996-03-12
; PRIOR APPLICATION NUMBER: 08/137,032
; PRIOR FILING DATE: 1993-03-18
; PRIOR APPLICATION NUMBER: PCT/GB20/00589
; PRIOR FILING DATE: 1992-04-02
; NUMBER OF SEQ ID NOS: 123
```

```
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 75
; LENGTH: 83
; TYPE: DNA
; ORGANISM: Lucerne transient streak virus
US-09-304-967-75
```

```
Query Match      42.7%; Score 25.6; DB 3; Length 83;
Best Local Similarity 77.5%; Pred. No. 8.6;
Matches 31; Conservative 0; Mismatches 9; Indels 0; Gaps 0;
```

```
QY      21 ACATGGCGTAACATCAGACCTGTATACAAGACCTGCACCT 60
      15 AACGGGTGTTACTTCTGCTCCTGTACTAGACCTGCTCCT 54
Db
```

```
RESULT 10
US-09-304-967-53
; Sequence 53, Application US/09304967
; Patent No. 6884623
; GENERAL INFORMATION:
; APPLICANT: Lomonosoff, George P.
; APPLICANT: Johnson, John E.
; APPLICANT: Bendig, Mary
; APPLICANT: Jones, Tim
; APPLICANT: Longstaff, Marian
; TITLE OF INVENTION: Modified Plant Viruses as Vectors of Heterologous
; TITLE OF INVENTION: Peptides
; FILE REFERENCE: DOM-04646
; CURRENT APPLICATION NUMBER: US/09/304,967
; PRIOR APPLICATION NUMBER: 08/471,048
; PRIOR FILING DATE: 1995-06-06
; PRIOR APPLICATION NUMBER: 08/612,858
; PRIOR FILING DATE: 1996-03-12
; PRIOR APPLICATION NUMBER: 08/137,032
; PRIOR FILING DATE: 1993-03-18
; PRIOR APPLICATION NUMBER: PCT/GB20/00589
; PRIOR FILING DATE: 1992-04-02
; NUMBER OF SEQ ID NOS: 123
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 53
; LENGTH: 68
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
US-09-304-967-53
```

```
Query Match      42.0%; Score 25.2; DB 3; Length 68;
Best Local Similarity 78.9%; Pred. No. 11;
Matches 30; Conservative 0; Mismatches 8; Indels 0; Gaps 0;
```

```
QY      23 ATGGCGTAACATCAGACCTGTATACAAGACCTGCACCT 60
      10 AGGGTGTACTTCTGCTCCTGTACTAGACCTGCTCCT 47
Db
```

```
RESULT 11
US-09-304-967-47
; Sequence 47, Application US/09304967
; Patent No. 6884623
; GENERAL INFORMATION:
; APPLICANT: Lomonosoff, George P.
; APPLICANT: Johnson, John E.
; APPLICANT: Bendig, Mary
; APPLICANT: Jones, Tim
; APPLICANT: Longstaff, Marian
; TITLE OF INVENTION: Modified Plant Viruses as Vectors of Heterologous
; TITLE OF INVENTION: Peptides
; FILE REFERENCE: DOM-04646
; CURRENT APPLICATION NUMBER: US/09/304,967
; CURRENT FILING DATE: 1999-05-05
```

```
; PRIOR APPLICATION NUMBER: 08/471,048
; PRIOR FILING DATE: 1995-06-06
; PRIOR APPLICATION NUMBER: 08/612,858
; PRIOR FILING DATE: 1996-03-12
; PRIOR APPLICATION NUMBER: 08/137,032
; PRIOR FILING DATE: 1993-03-18
; PRIOR APPLICATION NUMBER: PCT/GB20/00589
; PRIOR FILING DATE: 1992-04-02
; NUMBER OF SEQ ID NOS: 123
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 47
; LENGTH: 48
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-304-967-47
```

```
Query Match      41.3%; Score 24.8; DB 3; Length 48;
Best Local Similarity 80.6%; Pred. No. 14;
Matches 29; Conservative 0; Mismatches 7; Indels 0; Gaps 0;
```

```
QY      25 GCGTAACATCAGACCTGTATACAAGACCTGCACCT 60
      1 GGTGTACTTCTGCTCCTGTACTAGACCTGCTCCT 36
Db
```

```
RESULT 12
US-09-304-967-67
; Sequence 67, Application US/09304967
; Patent No. 6884623
; GENERAL INFORMATION:
; APPLICANT: Lomonosoff, George P.
; APPLICANT: Johnson, John E.
; APPLICANT: Bendig, Mary
; APPLICANT: Jones, Tim
; APPLICANT: Longstaff, Marian
; TITLE OF INVENTION: Modified Plant Viruses as Vectors of Heterologous
; TITLE OF INVENTION: Peptides
; FILE REFERENCE: DOM-04646
; CURRENT APPLICATION NUMBER: US/09/304,967
; PRIOR APPLICATION NUMBER: 08/471,048
; PRIOR FILING DATE: 1995-06-06
; PRIOR APPLICATION NUMBER: 08/612,858
; PRIOR FILING DATE: 1996-03-12
; PRIOR APPLICATION NUMBER: 08/137,032
; PRIOR FILING DATE: 1993-03-18
; PRIOR APPLICATION NUMBER: PCT/GB20/00589
; PRIOR FILING DATE: 1992-04-02
; NUMBER OF SEQ ID NOS: 123
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 67
; LENGTH: 48
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-304-967-67
```

```
Query Match      41.3%; Score 24.8; DB 3; Length 48;
Best Local Similarity 80.6%; Pred. No. 14;
Matches 29; Conservative 0; Mismatches 7; Indels 0; Gaps 0;
```

```
QY      25 GCGTAACATCAGACCTGTATACAAGACCTGCACCT 60
      1 GGTGTACTTCTGCTCCTGTACTAGACCTGCTCCT 36
Db
```

```
RESULT 13
US-09-304-967-90
; Sequence 90, Application US/09304967
; Patent No. 6884623
; GENERAL INFORMATION:
; APPLICANT: Lomonosoff, George P.
; APPLICANT: Johnson, John E.
; APPLICANT: Bendig, Mary
```

```
; APPLICANT: Jones, Tim
; APPLICANT: Longstaff, Marian
; TITLE OF INVENTION: Modified Plant Viruses as Vectors of Heterologous
; TITLE OF INVENTION: Peptides
; FILE REFERENCE: DOW-04646
; CURRENT APPLICATION NUMBER: US/09/304,967
; PRIOR FILING DATE: 1999-05-05
; PRIOR APPLICATION NUMBER: 08/471,048
; PRIOR FILING DATE: 1995-06-06
; PRIOR APPLICATION NUMBER: 08/612,858
; PRIOR FILING DATE: 1996-03-12
; PRIOR APPLICATION NUMBER: 08/137,032
; PRIOR FILING DATE: 1993-03-18
; PRIOR APPLICATION NUMBER: PCT/GB20/00589
; PRIOR FILING DATE: 1992-04-02
; NUMBER OF SEQ ID NOS: 123
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 90
; LENGTH: 48
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-304-967-90
```

```
Query Match      41.3%; Score 24.8; DB 3; Length 48;
Best Local Similarity 80.6%; Pred. No. 14;
Matches 29; Conservative 0; Mismatches 7; Indels 0; Gaps 0;
```

```
OY      25 GGGCTAACATCAGACCTGATACAGACCTGCACCT 60
      |||||
Db      1 GGTTTACTTCTGCTCCTGATAGACCTGCTCCT 36
```

RESULT 14

```
US-09-304-967-49
; Sequence 49, Application US/09304967
; Patent No. 6884623
; GENERAL INFORMATION:
; APPLICANT: Lomonosoff, George P.
; APPLICANT: Johnson, John E.
; APPLICANT: Bendig, Mary
; APPLICANT: Jones, Tim
; APPLICANT: Longstaff, Marian
; TITLE OF INVENTION: Modified Plant Viruses as Vectors of Heterologous
; TITLE OF INVENTION: Peptides
; FILE REFERENCE: DOW-04646
; CURRENT APPLICATION NUMBER: US/09/304,967
; CURRENT FILING DATE: 1999-05-05
; PRIOR APPLICATION NUMBER: 08/471,048
; PRIOR FILING DATE: 1995-06-06
; PRIOR APPLICATION NUMBER: 08/612,858
; PRIOR FILING DATE: 1996-03-12
; PRIOR APPLICATION NUMBER: 08/137,032
; PRIOR FILING DATE: 1993-03-18
; PRIOR APPLICATION NUMBER: PCT/GB20/00589
; PRIOR FILING DATE: 1992-04-02
; NUMBER OF SEQ ID NOS: 123
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 49
; LENGTH: 68
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
US-09-304-967-49
```

```
Query Match      41.3%; Score 24.8; DB 3; Length 68;
Best Local Similarity 80.6%; Pred. No. 16;
Matches 29; Conservative 0; Mismatches 7; Indels 0; Gaps 0;
```

```
OY      25 GGGCTAACATCAGACCTGATACAGACCTGCACCT 60
      |||||
Db      6 GGTTTACTTCTGCTCCTGATAGACCTGCTCCT 41
```

RESULT 15

```
US-09-304-967-92
; Sequence 92, Application US/09304967
; Patent No. 6884623
; GENERAL INFORMATION:
; APPLICANT: Lomonosoff, George P.
; APPLICANT: Johnson, John E.
; APPLICANT: Bendig, Mary
; APPLICANT: Jones, Tim
; APPLICANT: Longstaff, Marian
; TITLE OF INVENTION: Modified Plant Viruses as Vectors of Heterologous
; TITLE OF INVENTION: Peptides
; FILE REFERENCE: DOW-04646
; CURRENT APPLICATION NUMBER: US/09/304,967
; CURRENT FILING DATE: 1999-05-05
; PRIOR APPLICATION NUMBER: 08/471,048
; PRIOR FILING DATE: 1995-06-06
; PRIOR APPLICATION NUMBER: 08/612,858
; PRIOR FILING DATE: 1996-03-12
; PRIOR APPLICATION NUMBER: 08/137,032
; PRIOR FILING DATE: 1993-03-18
; PRIOR APPLICATION NUMBER: PCT/GB20/00589
; PRIOR FILING DATE: 1992-04-02
; NUMBER OF SEQ ID NOS: 123
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 92
; LENGTH: 78
; TYPE: DNA
; ORGANISM: Red clover necrotic mosaic virus
US-09-304-967-92
```

```
Query Match      41.3%; Score 24.8; DB 3; Length 78;
Best Local Similarity 80.6%; Pred. No. 16;
Matches 29; Conservative 0; Mismatches 7; Indels 0; Gaps 0;
```

```
OY      25 GGGCTAACATCAGACCTGATACAGACCTGCACCT 60
      |||||
Db      11 GGTTTACTTCTGCTCCTGATAGACCTGCTCCT 46
```

Search completed: March 27, 2006, 16:33:32
Job time : 55.5 secs

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OM nucleic - nucleic search, using sw model

Run on: March 27, 2006, 13:49:57 ; Search time 371.4 Seconds
(without alignments)
1335.925 Million cell updates/sec

Title: US-10-057-136A-4
Perfect score: 60
Sequence: 1 GGCAGTACTGCACCAACCGGC.....CTGATACAGACCTGCACCT 60

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 9793542 seqs, 4134689005 residues

Total number of hits satisfying chosen parameters: 14089978

Minimum DB seq length: 0
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8: /cgn2_6/ptodata/1/pubpna/US10D_PUBCOMB.seq:*
9: /cgn2_6/ptodata/1/pubpna/US10E_PUBCOMB.seq:*
10: /cgn2_6/ptodata/1/pubpna/US11_PUBCOMB.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	% Match	Query length	ID	Description
1	60	100.0	60	US-10-057-136-4	Sequence 4, Appli
2	37.6	62.7	60	US-10-057-136-12	Sequence 12, Appl
3	35.4	59.0	60	US-10-057-136-10	Sequence 10, Appl
4	33.4	55.7	60	US-10-057-136-8	Sequence 8, Appli
5	33.4	55.7	60	US-10-057-136-9	Sequence 9, Appli
6	33.2	55.3	60	US-10-057-136-7	Sequence 7, Appli
7	29	48.3	60	US-10-057-136-11	Sequence 11, Appl
8	27.4	45.7	60	US-10-057-136-6	Sequence 6, Appli
9	27	45.0	60	US-10-057-136-2	Sequence 2, Appli
10	27	45.0	78	US-10-057-136-13	Sequence 13, Appl
11	27	45.0	120	US-10-635-211-3	Sequence 3, Appli
12	27	45.0	162	US-10-635-211-8	Sequence 8, Appli
13	26.4	44.0	389	US-09-918-995-37681	Sequence 37681, A
14	25.8	43.0	201	US-10-741-600-70616	Sequence 70616, A
15	25.6	42.7	60	US-10-057-136-14	Sequence 14, Appl
16	25.4	42.3	153	US-10-425-115-159235	Sequence 159235, A
17	25.4	42.3	251	US-09-468-147-19	Sequence 19, Appl
18	25.4	42.3	251	US-10-319-745-19	Sequence 19, Appl
19	25.2	42.0	381	US-10-323-17015	Sequence 17015, A
20	24.8	41.3	148	US-10-767-701-29006	Sequence 29006, A
21	24.8	41.3	382	US-10-425-115-71265	Sequence 71265, A
22	24.6	41.0	457	US-09-864-761-3110	Sequence 3110, Ap
23	24.4	40.7	209	US-10-425-115-3586	Sequence 3586, Ap

24	24.2	40.3	60	US-10-057-136-5	Sequence 5, Appli
c 25	23.8	39.7	93	US-10-471-607-4	Sequence 4, Appli
26	23.8	39.7	157	US-10-471-607-6	Sequence 6, Appli
27	23.8	39.7	400	US-09-815-343-1120	Sequence 1120, Ap
28	23.8	39.7	400	US-09-922-217-341	Sequence 341, App
29	23.8	39.7	400	US-09-833-263-341	Sequence 341, App
30	23.8	39.7	400	US-10-025-380-341	Sequence 341, App
31	23.8	39.7	400	US-10-097-105-1120	Sequence 1120, Ap
32	23.8	39.7	430	US-10-767-701-29395	Sequence 29395, A
33	23.8	39.7	455	US-09-918-995-20411	Sequence 20411, A
c 34	23.8	39.7	463	US-09-837-969A-7	Sequence 7, Appli
c 35	23.8	39.7	463	US-09-841-321A-7	Sequence 7, Appli
c 36	23.6	39.3	60	US-10-716-293-214	Sequence 214, App
c 37	23.6	39.3	233	US-09-864-761-18699	Sequence 18699, A
c 38	23.6	39.3	261	US-10-282-122A-36430	Sequence 36430, A
c 39	23.6	39.3	384	US-10-282-122A-38156	Sequence 38156, A
c 40	23.4	39.0	70	US-10-403-232-34	Sequence 34, Appl
c 41	23.4	39.0	204	US-10-074-566-92	Sequence 92, Appl
c 42	23.4	39.0	204	US-10-074-566-93	Sequence 93, Appl
c 43	23.4	39.0	285	US-10-403-232-37	Sequence 37, Appl
c 44	23.4	39.0	399	US-10-074-566-91	Sequence 91, Appl
c 45	23.4	39.0	403	US-10-074-566-83	Sequence 83, Appl

ALIGNMENTS

RESULT 1
US-10-057-136-4
; Sequence 4, Application US/10057136
; Publication No. US20030021770A1
; GENERAL INFORMATION:
; APPLICANT: SCHLOM, JEFFREY
; APPLICANT: KANTOR, JUDITH
; APPLICANT: KUFE, DONALD
; APPLICANT: PANICALI, DENNIS
; APPLICANT: GRITZ, LINDA
; TITLE OF INVENTION: RECOMBINANT POX VIRUS FOR IMMUNIZATION AGAINST MUC1
; FILE REFERENCE: 700953/47113C
; CURRENT APPLICATION NUMBER: US/10/057,136
; CURRENT FILING DATE: 2002-01-25
; PRIOR APPLICATION NUMBER: 09/366,670
; PRIOR FILING DATE: 1999-08-03
; PRIOR APPLICATION NUMBER: PCT/US98/03693
; PRIOR FILING DATE: 1998-02-24
; PRIOR APPLICATION NUMBER: 60/038,253
; PRIOR FILING DATE: 1997-02-24
; NUMBER OF SEQ ID NOS: 20
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 4
; LENGTH: 60
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-057-136-4

Query Match 100.0%; Score 60; DB 5; Length 60;
Best Local Similarity 100.0%; Pred. No. 4.3e-11;
Matches 60; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GGCAGTACTGCACCAACCGGCAGATGCGTAACATCAGCACCTGATACAGACCTGCACCT 60
Db 1 GGCAGTACTGCACCAACCGGCAGATGCGTAACATCAGCACCTGATACAGACCTGCACCT 60

RESULT 2
US-10-057-136-12
; Sequence 12, Application US/10057136
; Publication No. US20030021770A1
; GENERAL INFORMATION:
; APPLICANT: SCHLOM, JEFFREY
; APPLICANT: KANTOR, JUDITH
; APPLICANT: KUFE, DONALD

```
; APPLICANT: PANICALI, DENNIS
; APPLICANT: GRITZ, LINDA
; TITLE OF INVENTION: RECOMBINANT POX VIRUS FOR IMMUNIZATION AGAINST MUC1
; TITLE OF INVENTION: TUMOR-ASSOCIATED ANTIGEN
; FILE REFERENCE: 700953/47113C
; CURRENT FILING DATE: 2002-01-25
; PRIOR APPLICATION NUMBER: 09/366,670
; PRIOR FILING DATE: 1998-02-24
; PRIOR APPLICATION NUMBER: PCT/US98/03693
; PRIOR FILING DATE: 1998-02-24
; PRIOR APPLICATION NUMBER: 60/038,253
; PRIOR FILING DATE: 1997-02-24
; NUMBER OF SEQ ID NOS: 20
; SOFTWARE: Patentln Ver. 2.1
; SEQ ID NO 12
; LENGTH: 60
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-057-136-12
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Query Match          62.7%; Score 37.6; DB 5; Length 60;
Best Local Similarity 76.7%; Pred. No. 0.0026;
Matches 46; Conservative 0; Mismatches 14; Indels 0; Gaps 0;
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```
QY 1 GGCAGTACTGCACCGGACATGGCGTACATCAGCACTGTATACAAGACTGCACCT 60
    |||||
Db 1 GGTAAGTACAGCGCCACCGGACATGGCGTACAGCGCTCCGGATACGAGACCGCGGCT 60
```

```
RESULT 3
US-10-057-136-10
; Sequence 10, Application US/10057136
; Publication No. US20030021770A1
; GENERAL INFORMATION:
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```
; APPLICANT: SCHIOM, JEFFREY
; APPLICANT: KANTOR, JUDITH
; APPLICANT: KUFE, DONALD
; APPLICANT: PANICALI, DENNIS
; APPLICANT: GRITZ, LINDA
; TITLE OF INVENTION: RECOMBINANT POX VIRUS FOR IMMUNIZATION AGAINST MUC1
; TITLE OF INVENTION: TUMOR-ASSOCIATED ANTIGEN
; FILE REFERENCE: 700953/47113C
; CURRENT APPLICATION NUMBER: US/10/057,136
; CURRENT FILING DATE: 2002-01-25
; PRIOR APPLICATION NUMBER: 09/366,670
; PRIOR FILING DATE: 1999-08-03
; PRIOR APPLICATION NUMBER: PCT/US98/03693
; PRIOR FILING DATE: 1998-02-24
; PRIOR APPLICATION NUMBER: 60/038,253
; PRIOR FILING DATE: 1997-02-24
; NUMBER OF SEQ ID NOS: 20
; SOFTWARE: Patentln Ver. 2.1
; SEQ ID NO 10
; LENGTH: 60
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-057-136-10
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Query Match          59.0%; Score 35.4; DB 5; Length 60;
Best Local Similarity 79.2%; Pred. No. 0.015;
Matches 42; Conservative 0; Mismatches 11; Indels 0; Gaps 0;
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```
QY 7 ACTGCACCGGACGATGGCGTACATCAGCACTGTATACAAGACTGCACCT 59
    |||||
Db 7 ACTGCCCTCCGGCGATGTGTGACCTCCTGACACAGGCGGCGGCT 59
```

```
RESULT 4
US-10-057-136-8
; Sequence 8, Application US/10057136
; Publication No. US20030021770A1
; GENERAL INFORMATION:
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```
; APPLICANT: SCHIOM, JEFFREY
; APPLICANT: KANTOR, JUDITH
; APPLICANT: KUFE, DONALD
; APPLICANT: PANICALI, DENNIS
; APPLICANT: GRITZ, LINDA
; TITLE OF INVENTION: RECOMBINANT POX VIRUS FOR IMMUNIZATION AGAINST MUC1
; TITLE OF INVENTION: TUMOR-ASSOCIATED ANTIGEN
; FILE REFERENCE: 700953/47113C
; CURRENT FILING DATE: 2002-01-25
; PRIOR APPLICATION NUMBER: 09/366,670
; PRIOR FILING DATE: 1999-08-03
; PRIOR APPLICATION NUMBER: PCT/US98/03693
; PRIOR FILING DATE: 1998-02-24
; PRIOR APPLICATION NUMBER: 60/038,253
; PRIOR FILING DATE: 1997-02-24
; NUMBER OF SEQ ID NOS: 20
; SOFTWARE: Patentln Ver. 2.1
; SEQ ID NO 8
; LENGTH: 60
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-057-136-8
```

```
Query Match          55.7%; Score 33.4; DB 5; Length 60;
Best Local Similarity 72.9%; Pred. No. 0.075;
Matches 43; Conservative 0; Mismatches 16; Indels 0; Gaps 0;
```

```
QY 1 GGCAGTACTGCACCGGACGATGGCGTACATCAGCACTGTATACAAGACTGCACCT 59
    |||||
Db 1 GGCAGACCGGACCGCGGACGAGGCTCAAGCGCGGACAGACACTGCACTGCGGCT 59
```

```
RESULT 5
US-10-057-136-9
; Sequence 9, Application US/10057136
; Publication No. US20030021770A1
; GENERAL INFORMATION:
```

```
; APPLICANT: SCHIOM, JEFFREY
; APPLICANT: KANTOR, JUDITH
; APPLICANT: KUFE, DONALD
; APPLICANT: PANICALI, DENNIS
; APPLICANT: GRITZ, LINDA
; TITLE OF INVENTION: RECOMBINANT POX VIRUS FOR IMMUNIZATION AGAINST MUC1
; TITLE OF INVENTION: TUMOR-ASSOCIATED ANTIGEN
; FILE REFERENCE: 700953/47113C
; CURRENT APPLICATION NUMBER: US/10/057,136
; CURRENT FILING DATE: 2002-01-25
; PRIOR APPLICATION NUMBER: 09/366,670
; PRIOR FILING DATE: 1999-08-03
; PRIOR APPLICATION NUMBER: PCT/US98/03693
; PRIOR FILING DATE: 1998-02-24
; PRIOR APPLICATION NUMBER: 60/038,253
; PRIOR FILING DATE: 1997-02-24
; NUMBER OF SEQ ID NOS: 20
; SOFTWARE: Patentln Ver. 2.1
; SEQ ID NO 9
; LENGTH: 60
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-057-136-9
```

```
Query Match          55.7%; Score 33.4; DB 5; Length 60;
Best Local Similarity 72.9%; Pred. No. 0.075;
Matches 43; Conservative 0; Mismatches 16; Indels 0; Gaps 0;
```

```
QY 1 GGCAGTACTGCACCGGACGATGGCGTACATCAGCACTGTATACAAGACTGCACCT 59
    |||||
Db 1 GGAAGTACCGCTCCACCTGACAGCGGGGTCAAGCGCGGACAGACACTGCACTGCGGCT 59
```

```
RESULT 6
US-10-057-136-7
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```
; Sequence 7, Application US/10057136
; Publication No. US20030021770A1
; GENERAL INFORMATION:
; APPLICANT: SCHLOM, JEFFREY
; APPLICANT: KANTOR, JUDITH
; APPLICANT: KUFE, DONALD
; APPLICANT: PANICALI, DENNIS
; APPLICANT: GRITZ, LINDA
; TITLE OF INVENTION: RECOMBINANT POX VIRUS FOR IMMUNIZATION AGAINST MUC1
; FILE REFERENCE: 700953/47113C
; CURRENT APPLICATION NUMBER: US/10/057,136
; CURRENT FILING DATE: 2002-01-25
; PRIOR APPLICATION NUMBER: 09/366,670
; PRIOR FILING DATE: 1999-08-03
; PRIOR APPLICATION NUMBER: PCT/US98/03693
; PRIOR FILING DATE: 1998-02-24
; PRIOR APPLICATION NUMBER: 60/038,253
; PRIOR FILING DATE: 1997-02-24
; NUMBER OF SEQ ID NOS: 20
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 7
; LENGTH: 60
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-057-136-7
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Query Match          55.3%; Score 33.2; DB 5; Length 60;
Best Local Similarity 75.9%; Pred. No. 0.087;
Matches 41; Conservative 0; Mismatches 13; Indels 0; Gaps 0;
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```
QY 7 ACTGCACCAACCGGACATGCGGTAAACATCAGACCTGATACAGACCTGCACCT 60
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RESULT 7

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US-10-057-136-11
; Sequence 11, Application US/10057136
; Publication No. US20030021770A1
; GENERAL INFORMATION:
; APPLICANT: SCHLOM, JEFFREY
; APPLICANT: KANTOR, JUDITH
; APPLICANT: KUFE, DONALD
; APPLICANT: PANICALI, DENNIS
; APPLICANT: GRITZ, LINDA
; TITLE OF INVENTION: RECOMBINANT POX VIRUS FOR IMMUNIZATION AGAINST MUC1
; FILE REFERENCE: 700953/47113C
; CURRENT APPLICATION NUMBER: US/10/057,136
; CURRENT FILING DATE: 2002-01-25
; PRIOR APPLICATION NUMBER: 09/366,670
; PRIOR FILING DATE: 1999-08-03
; PRIOR APPLICATION NUMBER: PCT/US98/03693
; PRIOR FILING DATE: 1998-02-24
; PRIOR APPLICATION NUMBER: 60/038,253
; PRIOR FILING DATE: 1997-02-24
; NUMBER OF SEQ ID NOS: 20
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 11
; LENGTH: 60
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-057-136-11
```

```
Query Match          48.3%; Score 29; DB 5; Length 60;
Best Local Similarity 71.7%; Pred. No. 2.5;
Matches 38; Conservative 0; Mismatches 15; Indels 0; Gaps 0;
```

```
QY 7 ACTGCACCAACCGGACATGCGGTAAACATCAGACCTGATACAGACCTGCACCT 59
    |||||
Db 7 ACGGACCTCCAGCAGCAGGAGTCACTCTGCACCCGACACCCGCTCCAGCTCC 59
```

RESULT 8

```
US-10-057-136-6
; Sequence 6, Application US/10057136
; Publication No. US20030021770A1
; GENERAL INFORMATION:
; APPLICANT: SCHLOM, JEFFREY
; APPLICANT: KANTOR, JUDITH
; APPLICANT: KUFE, DONALD
; APPLICANT: PANICALI, DENNIS
; APPLICANT: GRITZ, LINDA
; TITLE OF INVENTION: RECOMBINANT POX VIRUS FOR IMMUNIZATION AGAINST MUC1
; FILE REFERENCE: 700953/47113C
; CURRENT APPLICATION NUMBER: US/10/057,136
; CURRENT FILING DATE: 2002-01-25
; PRIOR APPLICATION NUMBER: 09/366,670
; PRIOR FILING DATE: 1999-08-03
; PRIOR APPLICATION NUMBER: PCT/US98/03693
; PRIOR FILING DATE: 1998-02-24
; PRIOR APPLICATION NUMBER: 60/038,253
; PRIOR FILING DATE: 1997-02-24
; NUMBER OF SEQ ID NOS: 20
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 6
; LENGTH: 60
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-057-136-6
```

```
Query Match          45.7%; Score 27.4; DB 5; Length 60;
Best Local Similarity 69.8%; Pred. No. 9;
Matches 37; Conservative 0; Mismatches 16; Indels 0; Gaps 0;
```

```
QY 7 ACTGCACCAACCGGACATGCGGTAAACATCAGACCTGATACAGACCTGCACCT 59
    |||||
Db 7 ACAGCTCCTCCCGCTCATGGGGTTACTTCTGCTCCAGATATCGCCAGCTCC 59
```

RESULT 9

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US-10-057-136-2
; Sequence 2, Application US/10057136
; Publication No. US20030021770A1
; GENERAL INFORMATION:
; APPLICANT: SCHLOM, JEFFREY
; APPLICANT: KANTOR, JUDITH
; APPLICANT: KUFE, DONALD
; APPLICANT: PANICALI, DENNIS
; APPLICANT: GRITZ, LINDA
; TITLE OF INVENTION: RECOMBINANT POX VIRUS FOR IMMUNIZATION AGAINST MUC1
; FILE REFERENCE: 700953/47113C
; CURRENT APPLICATION NUMBER: US/10/057,136
; CURRENT FILING DATE: 2002-01-25
; PRIOR APPLICATION NUMBER: 09/366,670
; PRIOR FILING DATE: 1999-08-03
; PRIOR APPLICATION NUMBER: PCT/US98/03693
; PRIOR FILING DATE: 1998-02-24
; PRIOR APPLICATION NUMBER: 60/038,253
; PRIOR FILING DATE: 1997-02-24
; NUMBER OF SEQ ID NOS: 20
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2
; LENGTH: 60
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-057-136-2
```

```
Query Match          45.0%; Score 27; DB 5; Length 60;
Best Local Similarity 66.1%; Pred. No. 12;
Matches 39; Conservative 0; Mismatches 20; Indels 0; Gaps 0;
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```
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Db 1 GGCTCCACCGCCCCCAGCCGCGGTGTACCTCGGCCCCCGACACCCAGCGGCCCC 59

RESULT 10
US-10-057-136-13
; Sequence 13, Application US/10057136
; Publication No. US20030021770A1
; GENERAL INFORMATION:
; APPLICANT: SCHLOM, JEFFREY
; APPLICANT: KANTOR, JUDITH
; APPLICANT: KUFE, DONALD
; APPLICANT: PANICALI, DENNIS
; APPLICANT: GRITZ, LINDA
; TITLE OF INVENTION: RECOMBINANT POX VIRUS FOR IMMUNIZATION AGAINST MUC1
; TITLE OF INVENTION: TUMOR-ASSOCIATED ANTIGEN
; FILE REFERENCE: 700953/47113C
; CURRENT APPLICATION NUMBER: US/10/057,136
; PRIOR FILING DATE: 2002-01-25
; PRIOR APPLICATION NUMBER: 09/366,670
; PRIOR FILING DATE: 1999-08-03
; PRIOR APPLICATION NUMBER: PCT/US98/03693
; PRIOR FILING DATE: 1998-02-24
; PRIOR APPLICATION NUMBER: 60/038,253
; PRIOR FILING DATE: 1997-02-24
; NUMBER OF SEQ ID NOS: 20
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 13
; LENGTH: 78
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-057-136-13

Query Match 45.0%; Score 27; DB 5; Length 78;
Best Local Similarity 66.1%; Pred. No. 13;
Matches 39; Conservative 0; Mismatches 20; Indels 0; Gaps 0;

QY 1 GGCACTACTGCACACCGGACATGGCGTACATCAGCACCTGATACAGACCTGCACC 59
Db 1 GGCTCCACCGCCCCCAGCCGCGGTGTACCTCGGCCCCCGACACCCAGCGGCCCC 59

RESULT 11
US-10-635-211-3
; Sequence 3, Application US/10635211
; Publication No. US20050031649A1
; GENERAL INFORMATION:
; APPLICANT: Beijing HYDVAX Biotechnology Co. Ltd
; TITLE OF INVENTION: A recombinant fusion protein comprising BCG heat shock protein 65
; TITLE OF INVENTION: and the epitope of MUC1
; FILE REFERENCE: FP03012US
; CURRENT APPLICATION NUMBER: US/10/635,211
; CURRENT FILING DATE: 2003-08-06
; NUMBER OF SEQ ID NOS: 9
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 3
; LENGTH: 120
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (1)..(120)
US-10-635-211-3

Query Match 45.0%; Score 27; DB 8; Length 120;
Best Local Similarity 66.1%; Pred. No. 14;
Matches 39; Conservative 0; Mismatches 20; Indels 0; Gaps 0;

QY 1 GGCACTACTGCACACCGGACATGGCGTACATCAGCACCTGATACAGACCTGCACC 59
Db 1 GGTTCTACCGCTCGCGGCTCAGCGGTGTACCTCTGCTCCGGACACCCGTCGGCTCC 59

RESULT 12
US-10-635-211-8/c
; Sequence 8, Application US/10635211
; Publication No. US20050031649A1
; GENERAL INFORMATION:
; APPLICANT: Beijing HYDVAX Biotechnology Co. Ltd
; TITLE OF INVENTION: A recombinant fusion protein comprising BCG heat shock protein 65
; TITLE OF INVENTION: and the epitope of MUC1
; FILE REFERENCE: FP03012US
; CURRENT APPLICATION NUMBER: US/10/635,211
; CURRENT FILING DATE: 2003-08-06
; NUMBER OF SEQ ID NOS: 9
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 8
; LENGTH: 162
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Primer
US-10-635-211-8

Query Match 45.0%; Score 27; DB 8; Length 162;
Best Local Similarity 66.1%; Pred. No. 15;
Matches 39; Conservative 0; Mismatches 20; Indels 0; Gaps 0;

QY 1 GGCACTACTGCACACCGGACATGGCGTACATCAGCACCTGATACAGACCTGCACC 59
Db 138 GGTTCTACCGCTCGCGGCTCAGCGGTGTACCTCTGCTCCGGACACCCGTCGGCTCC 80

RESULT 13
US-09-918-995-37681
; Sequence 37681, Application US/09918995
; Publication No. US20030073623A1
; GENERAL INFORMATION:
; APPLICANT: Hyseq, Inc.
; TITLE OF INVENTION: NOVEL NUCLEIC ACID SEQUENCES OBTAINED
; FILE REFERENCE: 20411-756
; CURRENT APPLICATION NUMBER: US/09/918,995
; CURRENT FILING DATE: 2001-07-30
; PRIOR APPLICATION NUMBER: US/09/235,076
; PRIOR FILING DATE: 1999-01-20
; NUMBER OF SEQ ID NOS: 38054
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 37681
; LENGTH: 389
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-918-995-37681

Query Match 44.0%; Score 26.4; DB 3; Length 389;
Best Local Similarity 65.0%; Pred. No. 29;
Matches 39; Conservative 0; Mismatches 21; Indels 0; Gaps 0;

QY 1 GGCACTACTGCACACCGGACATGGCGTACATCAGCACCTGATACAGACCTGCACC 60
Db 315 GGTGGCCAGCCCTCCCGACCTGTGCGCCACCACTGGCAGAGCCCTTCACT 374

RESULT 14
US-10-741-600-70616
; Sequence 70616, Application US/10741600
; Publication No. US20050026169A1
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele et al.
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; TITLE OF INVENTION: MYOCARDIAL INFARCTION, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001499
; CURRENT APPLICATION NUMBER: US/10/741,600
; CURRENT FILING DATE: 2003-12-22
; NUMBER OF SEQ ID NOS: 73997
; SOFTWARE: FastSeq for Windows Version 4.0

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GenCore version 5.1.7
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OM nucleic - nucleic search, using sw model

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Title: US-10-057-136A-2

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Searched: 9258654 seqs, 1993127192 residues

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4: /SIDS5/ptodata/2/pubpna/PCT_NEW_PUB.seq:*
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6: /SIDS5/ptodata/2/pubpna/US09_NEW_PUB.seq:*
7: /SIDS5/ptodata/2/pubpna/US10_NEW_PUB.seq:*
8: /SIDS5/ptodata/2/pubpna/US10_NEW_PUB.seq:*
9: /SIDS5/ptodata/2/pubpna/US10_NEW_PUB.seq:*
10: /SIDS5/ptodata/2/pubpna/US10_NEW_PUB.seq:*
11: /SIDS5/ptodata/2/pubpna/US11_NEW_PUB.seq:*
12: /SIDS5/ptodata/2/pubpna/US11_NEW_PUB.seq2:*
13: /SIDS5/ptodata/2/pubpna/US11_NEW_PUB.seq3:*
14: /SIDS5/ptodata/2/pubpna/US11_NEW_PUB.seq4:*
15: /SIDS5/ptodata/2/pubpna/US60_NEW_PUB.seq:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB	ID	Description
1	57	95.0	468	8	US-10-401-386B-43	Sequence 43, Appl
2	56.8	94.7	328	9	US-10-517-696-41	Sequence 41, Appl
3	31.4	52.3	36	8	US-10-401-386B-59	Sequence 59, Appl
C	5	26.4	44.0	9	US-10-301-480-82925	Sequence 82925, A
C	5	26.4	44.0	10	US-10-301-480-696334	Sequence 696334, A
6	25.6	42.7	201	8	US-10-995-561-53366	Sequence 53366, A
7	25.6	42.7	201	8	US-10-995-561-53374	Sequence 53374, A
8	25.6	42.7	201	8	US-10-995-561-53465	Sequence 53465, A
9	25.6	42.7	201	8	US-10-995-561-53479	Sequence 53479, A
10	25.6	42.7	201	8	US-10-995-561-53481	Sequence 53481, A
11	25.6	42.7	201	8	US-10-995-561-53483	Sequence 53483, A
12	25.6	42.7	201	8	US-10-995-561-53485	Sequence 53485, A
13	25.6	42.7	201	8	US-10-995-561-53486	Sequence 53486, A
14	25.6	42.7	201	8	US-10-995-561-53487	Sequence 53487, A
15	25.6	42.7	201	8	US-10-995-561-53489	Sequence 53489, A
16	25.6	42.7	201	8	US-10-995-561-53491	Sequence 53491, A
17	25.6	42.7	327	8	US-10-401-386B-41	Sequence 41, Appl
18	25.6	42.3	27	8	US-10-401-386B-55	Sequence 55, Appl

C	19	25.4	42.3	201	8	US-10-995-561-37155	Sequence 37155, A
C	20	25.4	42.3	201	8	US-10-995-561-73945	Sequence 73945, A
C	21	25.2	42.0	201	8	US-10-995-561-53372	Sequence 53372, A
C	22	24.8	41.3	201	8	US-10-995-561-53554	Sequence 53554, A
C	23	24.8	41.3	387	6	US-09-925-065A-483357	Sequence 483357, A
C	24	24.6	41.0	381	8	US-10-623-155-215	Sequence 215, Appl
C	25	24.4	40.7	201	8	US-10-995-561-11990	Sequence 11990, A
C	26	24.4	40.7	201	8	US-10-995-561-11991	Sequence 11991, A
C	27	24.4	40.7	201	8	US-10-995-561-12007	Sequence 12007, A
C	28	24.4	40.7	201	8	US-10-995-561-61686	Sequence 61686, A
C	29	24.4	40.7	201	8	US-10-995-561-61687	Sequence 61687, A
C	30	24.4	40.7	201	8	US-10-995-561-61718	Sequence 61718, A
C	31	24.4	40.7	201	8	US-10-995-561-82481	Sequence 82481, A
C	32	24.4	40.7	201	8	US-10-995-561-82482	Sequence 82482, A
C	33	24.4	40.7	201	8	US-10-995-561-82502	Sequence 82502, A
C	34	24.4	40.7	432	6	US-09-925-065A-474853	Sequence 474853, A
C	35	24.2	40.3	64	8	US-10-310-914A-4630	Sequence 4630, Ap
C	36	24	40.0	226	14	US-11-043-752-2317	Sequence 2317, Ap
C	37	24	40.0	377	14	US-11-043-752-2314	Sequence 2314, Ap
C	38	24	40.0	414	6	US-09-925-065A-496036	Sequence 496036, Ap
C	39	23.8	39.7	343	14	US-11-128-061-2535	Sequence 2535, Ap
C	40	23.8	39.7	343	14	US-11-128-061-6177	Sequence 6177, Ap
C	41	23.8	39.7	343	14	US-11-128-049-2535	Sequence 2535, Ap
C	42	23.8	39.7	343	14	US-11-128-049-6177	Sequence 6177, Ap
C	43	23.6	39.3	201	8	US-10-995-561-10872	Sequence 10872, A
C	44	23.6	39.3	201	8	US-10-995-561-35009	Sequence 35009, A
C	45	23.6	39.3	201	8	US-10-995-561-57938	Sequence 57938, A

ALIGNMENTS

RESULT 1
US-10-401-386B-43
; Sequence 43, Application US/10401386B
; Publication No. US20050261213A1
; GENERAL INFORMATION:
; APPLICANT: Patrick Branigan
; APPLICANT: Theresa J Goletz
; APPLICANT: David M Knight
; APPLICANT: Stephen G McCarthy
; APPLICANT: Bernard J Scallion
; APPLICANT: Linda A Snyder
; TITLE OF INVENTION: Nucleic Acid Compositions and Methods
; TITLE OF INVENTION: for Use
; FILE REFERENCE: CEN 310CIP
; CURRENT APPLICATION NUMBER: US/10/401,386B
; CURRENT FILING DATE: 2003-03-28
; PRIOR APPLICATION NUMBER: 10/247,203
; PRIOR FILING DATE: 2002-09-19
; PRIOR APPLICATION NUMBER: 60/328,371
; PRIOR FILING DATE: 2001-10-10
; NUMBER OF SEQ ID NOS: 81
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 43
; LENGTH: 468
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (1)...(468)
US-10-401-386B-43

Query Match 95.0%; Score 57; DB 8; Length 468;
Best Local Similarity 100.0%; Pred. No. 4.8e-07;
Matches 57; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GGCTCCACCGCCCCCGACCGGTGTCACTCGGCGCCCGGACACCAAGCGCGCC 57
Db 412 GGCTCCACCGCCCCCGACCGGTGTCACTCGGCGCCCGGACACCAAGCGCGCC 468

RESULT 2

US-10-517-696-41
; Sequence 41, Application US/10517696
; Publication No. US20060051759A1
; GENERAL INFORMATION:
; APPLICANT: diadexus, Inc.
; APPLICANT: Salceda, Susana
; APPLICANT: Macina, Roberto A.
; APPLICANT: Turner, Leah R.
; APPLICANT: Sun, Yongming
; APPLICANT: Liu, Chenghua
; TITLE OF INVENTION: Compositions and Methods Relating to Breast Specific Genes and P
; FILE REFERENCE: DEX-0432
; CURRENT APPLICATION NUMBER: US/10/517,696
; PRIOR FILING DATE: 2004-12-13
; PRIOR APPLICATION NUMBER: US 60/389,327
; PRIOR FILING DATE: 2002-06-14
; NUMBER OF SEQ ID NOS: 171
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 41
; LENGTH: 328
; TYPE: DNA
; ORGANISM: Homo sapien
US-10-517-696-41

Query Match 94.7%; Score 56.8; DB 9; Length 328;
Best Local Similarity 96.7%; Pred. No. 5.7e-07;
Matches 58; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
QY 1 GGCTCCACCGCGCCCGGAGCCCGGTGTACCTCGGCGCCCGAGACAGCGCGCGCCG 60
DB 95 GGCTCCACCGCGCGCCCGGAGCCCGGTGTACCTCGGCGCCCGAGACAGCGCGCGCCG 154

RESULT 3
US-10-401-386B-59
; Sequence 59, Application US/10401386B
; Publication No. US20050261213A1
; GENERAL INFORMATION:
; APPLICANT: Patrick Branigan
; APPLICANT: Theresa J Goletz
; APPLICANT: David M Knight
; APPLICANT: Stephen G McCarthy
; APPLICANT: Bernard J Scallion
; APPLICANT: Linda A Snyder
; TITLE OF INVENTION: Nucleic Acid Compositions and Methods
; TITLE OF INVENTION: for Use
; FILE REFERENCE: CEN 310CIP
; CURRENT APPLICATION NUMBER: US/10/401,386B
; CURRENT FILING DATE: 2003-03-28
; PRIOR APPLICATION NUMBER: 10/247,203
; PRIOR FILING DATE: 2002-09-19
; PRIOR APPLICATION NUMBER: 60/328,371
; PRIOR FILING DATE: 2001-10-10
; NUMBER OF SEQ ID NOS: 81
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 59
; LENGTH: 36
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (1)...(36)
US-10-401-386B-59

Query Match 52.3%; Score 31.4; DB 8; Length 36;
Best Local Similarity 97.0%; Pred. No. 7.8;
Matches 32; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 1 GGCTCCACCGCGCCCGGAGCCCGGTGTACCC 33
DB 4 GGCTCCACCGCGCCCGGAGCCCGGTGTACCC 36

RESULT 4
US-10-301-480-82925/c
; Sequence 82925, Application US/10301480
; Publication No. US20060057564A1
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single Nucleotide Polymorphisms
; TITLE OF INVENTION: in the Human Genome
; FILE REFERENCE: 108827.137
; CURRENT APPLICATION NUMBER: US/10/301,480
; CURRENT FILING DATE: 2002-11-21
; PRIOR APPLICATION NUMBER: US 10/215,598
; PRIOR FILING DATE: 2002-08-09
; PRIOR APPLICATION NUMBER: US 60/311,695
; PRIOR FILING DATE: 2001-08-10
; NUMBER OF SEQ ID NOS: 1226818
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 82925
; LENGTH: 414
; TYPE: DNA
; ORGANISM: Homo sapien
US-10-301-480-82925

Query Match 44.0%; Score 26.4; DB 9; Length 414;
Best Local Similarity 69.2%; Pred. No. 1.3e+02;
Matches 36; Conservative 0; Mismatches 16; Indels 0; Gaps 0;
QY 8 CCGCCCCCGGACCCCGGTGTACCTCGGCGCCCGGAGACACGAGCGCGCCG 59
DB 64 CCGCCACACGACCCCGGCTGTCTGTGCCCCGGCTCCCTTCCGACAC 13

RESULT 5
US-10-301-480-696334/c
; Sequence 696334, Application US/10301480
; Publication No. US20060057564A1
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single Nucleotide Polymorphisms
; TITLE OF INVENTION: in the Human Genome
; FILE REFERENCE: 108827.137
; CURRENT APPLICATION NUMBER: US/10/301,480
; CURRENT FILING DATE: 2002-11-21
; PRIOR APPLICATION NUMBER: US 10/215,598
; PRIOR FILING DATE: 2002-08-09
; PRIOR APPLICATION NUMBER: US 60/311,695
; PRIOR FILING DATE: 2001-08-10
; NUMBER OF SEQ ID NOS: 1226818
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 696334
; LENGTH: 414
; TYPE: DNA
; ORGANISM: Homo sapien
US-10-301-480-696334

Query Match 44.0%; Score 26.4; DB 10; Length 414;
Best Local Similarity 69.2%; Pred. No. 1.3e+02;
Matches 36; Conservative 0; Mismatches 16; Indels 0; Gaps 0;
QY 8 CCGCCCCCGGACCCCGGTGTACCTCGGCGCCCGGAGACACGAGCGCGCCG 59
DB 64 CCGCCACACGACCCCGGCTGTCTGTGCCCCGGCTCCCTTCCGACAC 13

RESULT 6
US-10-995-561-53366
; Sequence 53366, Application US/10995561
; Publication No. US20050272054A1
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele et al.
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; TITLE OF INVENTION: CARDIOVASCULAR DISORDERS AND DRUG RESPONSE, METHODS OF
; TITLE OF INVENTION: DETECTION AND USES THEREOF

```
; FILE REFERENCE: CL001559
; CURRENT APPLICATION NUMBER: US/10/995,561
; CURRENT FILING DATE: 2004-11-24
; NUMBER OF SEQ ID NOS: 85702
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 53366
; LENGTH: 201
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-995-561-53366
```

```
Query Match          42.7%; Score 25.6; DB 8; Length 201;
Best Local Similarity 66.1%; Pred. No. 2.4e+02;
Matches 37; Conservative 0; Mismatches 19; Indels 0; Gaps 0;
```

```
OY      2 GCTCCACGCGCCCGCCAGCCCGGTGTCACCTCGGCGCCGACACACGAGCGCGGCC 57
          ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db      137 GCTGCACAGCCCTCCAGACCAACCCCGCATGTCCGCATGTCCACCATGTCCACC 192
```

```
RESULT 7
US-10-995-561-53374
```

```
; Sequence 53374, Application US/10995561
; Publication No. US20050272054A1
; GENERAL INFORMATION:
```

```
; APPLICANT: CARGILL, Michele et al.
```

```
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
```

```
; TITLE OF INVENTION: CARDIOVASCULAR DISORDERS AND DRUG RESPONSE, METHODS OF
```

```
; TITLE OF INVENTION: DETECTION AND USES THEREOF
```

```
; FILE REFERENCE: CL001559
```

```
; CURRENT APPLICATION NUMBER: US/10/995,561
```

```
; CURRENT FILING DATE: 2004-11-24
```

```
; NUMBER OF SEQ ID NOS: 85702
```

```
; SOFTWARE: FastSeq for Windows Version 4.0
```

```
; SEQ ID NO 53374
```

```
; LENGTH: 201
```

```
; TYPE: DNA
```

```
; ORGANISM: Homo sapiens
```

```
US-10-995-561-53374
```

```
Query Match          42.7%; Score 25.6; DB 8; Length 201;
```

```
Best Local Similarity 66.1%; Pred. No. 2.4e+02;
```

```
Matches 37; Conservative 0; Mismatches 19; Indels 0; Gaps 0;
```

```
OY      2 GCTCCACGCGCCCGCCAGCCCGGTGTCACCTCGGCGCCGACACACGAGCGCGGCC 57
          ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db      6 GCTGCACAGCCCTCCAGACCAACCCCGCATGTCCGCATGTCCACCATGTCCACC 61
```

```
RESULT 8
US-10-995-561-53465
```

```
; Sequence 53465, Application US/10995561
; Publication No. US20050272054A1
; GENERAL INFORMATION:
```

```
; APPLICANT: CARGILL, Michele et al.
```

```
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
```

```
; TITLE OF INVENTION: CARDIOVASCULAR DISORDERS AND DRUG RESPONSE, METHODS OF
```

```
; TITLE OF INVENTION: DETECTION AND USES THEREOF
```

```
; FILE REFERENCE: CL001559
```

```
; CURRENT APPLICATION NUMBER: US/10/995,561
```

```
; CURRENT FILING DATE: 2004-11-24
```

```
; NUMBER OF SEQ ID NOS: 85702
```

```
; SOFTWARE: FastSeq for Windows Version 4.0
```

```
; SEQ ID NO 53465
```

```
; LENGTH: 201
```

```
; TYPE: DNA
```

```
; ORGANISM: Homo sapiens
```

```
US-10-995-561-53465
```

```
Query Match          42.7%; Score 25.6; DB 8; Length 201;
Best Local Similarity 66.1%; Pred. No. 2.4e+02;
Matches 37; Conservative 0; Mismatches 19; Indels 0; Gaps 0;
```

```
OY      2 GCTCCACGCGCCCGCCAGCCCGGTGTCACCTCGGCGCCGACACACGAGCGCGGCC 57
          ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db      79 GCTGCACAGCCCTCCAGACCAACCCCGCATGTCCGCATGTCCACCATGTCCACC 134
```

```
RESULT 9
US-10-995-561-53479
```

```
; Sequence 53479, Application US/10995561
; Publication No. US20050272054A1
; GENERAL INFORMATION:
```

```
; APPLICANT: CARGILL, Michele et al.
```

```
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
```

```
; TITLE OF INVENTION: CARDIOVASCULAR DISORDERS AND DRUG RESPONSE, METHODS OF
```

```
; TITLE OF INVENTION: DETECTION AND USES THEREOF
```

```
; FILE REFERENCE: CL001559
```

```
; CURRENT APPLICATION NUMBER: US/10/995,561
```

```
; CURRENT FILING DATE: 2004-11-24
```

```
; NUMBER OF SEQ ID NOS: 85702
```

```
; SOFTWARE: FastSeq for Windows Version 4.0
```

```
; SEQ ID NO 53479
```

```
; LENGTH: 201
```

```
; TYPE: DNA
```

```
; ORGANISM: Homo sapiens
```

```
US-10-995-561-53479
```

```
Query Match          42.7%; Score 25.6; DB 8; Length 201;
Best Local Similarity 66.1%; Pred. No. 2.4e+02;
Matches 37; Conservative 0; Mismatches 19; Indels 0; Gaps 0;
```

```
OY      2 GCTCCACGCGCCCGCCAGCCCGGTGTCACCTCGGCGCCGACACACGAGCGCGGCC 57
          ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db      78 GCTGCACAGCCCTCCAGACCAACCCCGCATGTCCGCATGTCCACCATGTCCACC 133
```

```
RESULT 10
US-10-995-561-53481
```

```
; Sequence 53481, Application US/10995561
; Publication No. US20050272054A1
; GENERAL INFORMATION:
```

```
; APPLICANT: CARGILL, Michele et al.
```

```
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
```

```
; TITLE OF INVENTION: CARDIOVASCULAR DISORDERS AND DRUG RESPONSE, METHODS OF
```

```
; TITLE OF INVENTION: DETECTION AND USES THEREOF
```

```
; FILE REFERENCE: CL001559
```

```
; CURRENT APPLICATION NUMBER: US/10/995,561
```

```
; CURRENT FILING DATE: 2004-11-24
```

```
; NUMBER OF SEQ ID NOS: 85702
```

```
; SOFTWARE: FastSeq for Windows Version 4.0
```

```
; SEQ ID NO 53481
```

```
; LENGTH: 201
```

```
; TYPE: DNA
```

```
; ORGANISM: Homo sapiens
```

```
US-10-995-561-53481
```

```
Query Match          42.7%; Score 25.6; DB 8; Length 201;
Best Local Similarity 66.1%; Pred. No. 2.4e+02;
Matches 37; Conservative 0; Mismatches 19; Indels 0; Gaps 0;
```

```
OY      2 GCTCCACGCGCCCGCCAGCCCGGTGTCACCTCGGCGCCGACACACGAGCGCGGCC 57
          ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db      77 GCTGCACAGCCCTCCAGACCAACCCCGCATGTCCGCATGTCCACCATGTCCACC 132
```

```
RESULT 11
US-10-995-561-53483
```

```
; Sequence 53483, Application US/10995561
; Publication No. US20050272054A1
; GENERAL INFORMATION:
```

```
; APPLICANT: CARGILL, Michele et al.
```

```
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
```

```
; TITLE OF INVENTION: CARDIOVASCULAR DISORDERS AND DRUG RESPONSE, METHODS OF
```

```
; TITLE OF INVENTION: DETECTION AND USES THEREOF
```

```
; FILE REFERENCE: CL001559
```



```
/ CURRENT APPLICATION NUMBER: US/10/995,561
/ CURRENT FILING DATE: 2004-11-24
/ NUMBER OF SEQ ID NOS: 85702
/ SOFTWARE: FastSeq for Windows Version 4.0
/ SEQ ID NO 53483
/ LENGTH: 201
/ TYPE: DNA
/ ORGANISM: Homo sapiens
US-10-995-561-53483
```

```
Query Match          42.7%; Score 25.6; DB 8; Length 201;
Best Local Similarity 66.1%; Pred. No. 2.4e+02;
Matches 37; Conservative 0; Mismatches 19; Indels 0; Gaps 0;
```

```
QY      2 GCTCCACCGCCCCCGACCGCGTGTCACTCGGCCCCGAGACACGAGCGCGCC 57
          ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db      76 GCTGCACAGCCCTCTCCAGACCAACCGCCCATGTCCGCCATGTCCACCATGTCCACC 131
```

RESULT 12

```
US-10-995-561-53485
/ Sequence 53485, Application US/10995561
/ Publication No. US20050272054A1
/ GENERAL INFORMATION:
```

```
/ APPLICANT: CARGILL, Michele et al.
/ TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
/ TITLE OF INVENTION: CARDIOVASCULAR DISORDERS AND DRUG RESPONSE, METHODS OF
/ TITLE OF INVENTION: DETECTION AND USES THEREOF
/ FILE REFERENCE: CL001559
```

```
/ CURRENT APPLICATION NUMBER: US/10/995,561
```

```
/ CURRENT FILING DATE: 2004-11-24
```

```
/ NUMBER OF SEQ ID NOS: 85702
```

```
/ SOFTWARE: FastSeq for Windows Version 4.0
```

```
/ SEQ ID NO 53485
```

```
/ LENGTH: 201
```

```
/ TYPE: DNA
```

```
/ ORGANISM: Homo sapiens
```

```
US-10-995-561-53485
```

```
Query Match          42.7%; Score 25.6; DB 8; Length 201;
Best Local Similarity 66.1%; Pred. No. 2.4e+02;
Matches 37; Conservative 0; Mismatches 19; Indels 0; Gaps 0;
```

```
QY      2 GCTCCACCGCCCCCGACCGCGTGTCACTCGGCCCCGAGACACGAGCGCGCC 57
          ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db      75 GCTGCACAGCCCTCTCCAGACCAACCGCCCATGTCCGCCATGTCCACCATGTCCACC 130
```

RESULT 13

```
US-10-995-561-53486
/ Sequence 53486, Application US/10995561
/ Publication No. US20050272054A1
/ GENERAL INFORMATION:
```

```
/ APPLICANT: CARGILL, Michele et al.
```

```
/ TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
```

```
/ TITLE OF INVENTION: CARDIOVASCULAR DISORDERS AND DRUG RESPONSE, METHODS OF
```

```
/ TITLE OF INVENTION: DETECTION AND USES THEREOF
```

```
/ FILE REFERENCE: CL001559
```

```
/ CURRENT APPLICATION NUMBER: US/10/995,561
```

```
/ CURRENT FILING DATE: 2004-11-24
```

```
/ NUMBER OF SEQ ID NOS: 85702
```

```
/ SOFTWARE: FastSeq for Windows Version 4.0
```

```
/ SEQ ID NO 53486
```

```
/ LENGTH: 201
```

```
/ TYPE: DNA
```

```
/ ORGANISM: Homo sapiens
```

```
US-10-995-561-53486
```

```
Query Match          42.7%; Score 25.6; DB 8; Length 201;
Best Local Similarity 66.1%; Pred. No. 2.4e+02;
Matches 37; Conservative 0; Mismatches 19; Indels 0; Gaps 0;
```

```
QY      2 GCTCCACCGCCCCCGACCGCGTGTCACTCGGCCCCGAGACACGAGCGCGCC 57
```

```
Db      72 GCTGCACAGCCCTCTCCAGACCAACCGCCCATGTCCGCCATGTCCACCATGTCCACC 127
```

RESULT 14

```
US-10-995-561-53487
/ Sequence 53487, Application US/10995561
/ Publication No. US20050272054A1
/ GENERAL INFORMATION:
```

```
/ APPLICANT: CARGILL, Michele et al.
```

```
/ TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
```

```
/ TITLE OF INVENTION: CARDIOVASCULAR DISORDERS AND DRUG RESPONSE, METHODS OF
```

```
/ TITLE OF INVENTION: DETECTION AND USES THEREOF
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```
/ FILE REFERENCE: CL001559
```

```
/ CURRENT APPLICATION NUMBER: US/10/995,561
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/ CURRENT FILING DATE: 2004-11-24
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/ NUMBER OF SEQ ID NOS: 85702
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/ SOFTWARE: FastSeq for Windows Version 4.0
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/ SEQ ID NO 53487
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/ LENGTH: 201
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/ TYPE: DNA
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/ ORGANISM: Homo sapiens
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US-10-995-561-53487
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Query Match          42.7%; Score 25.6; DB 8; Length 201;
Best Local Similarity 66.1%; Pred. No. 2.4e+02;
Matches 37; Conservative 0; Mismatches 19; Indels 0; Gaps 0;
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QY      2 GCTCCACCGCCCCCGACCGCGTGTCACTCGGCCCCGAGACACGAGCGCGCC 57
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Db      71 GCTGCACAGCCCTCTCCAGACCAACCGCCCATGTCCGCCATGTCCACCATGTCCACC 126
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RESULT 15

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US-10-995-561-53489
/ Sequence 53489, Application US/10995561
/ Publication No. US20050272054A1
/ GENERAL INFORMATION:
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```
/ APPLICANT: CARGILL, Michele et al.
```

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/ TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
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```
/ TITLE OF INVENTION: CARDIOVASCULAR DISORDERS AND DRUG RESPONSE, METHODS OF
```

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/ TITLE OF INVENTION: DETECTION AND USES THEREOF
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/ FILE REFERENCE: CL001559
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/ CURRENT APPLICATION NUMBER: US/10/995,561
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/ CURRENT FILING DATE: 2004-11-24
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/ NUMBER OF SEQ ID NOS: 85702
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/ SOFTWARE: FastSeq for Windows Version 4.0
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/ SEQ ID NO 53489
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/ LENGTH: 201
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/ TYPE: DNA
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```
/ ORGANISM: Homo sapiens
```

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US-10-995-561-53489
```

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Query Match          42.7%; Score 25.6; DB 8; Length 201;
Best Local Similarity 66.1%; Pred. No. 2.4e+02;
Matches 37; Conservative 0; Mismatches 19; Indels 0; Gaps 0;
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QY      2 GCTCCACCGCCCCCGACCGCGTGTCACTCGGCCCCGAGACACGAGCGCGCC 57
          ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db      70 GCTGCACAGCCCTCTCCAGACCAACCGCCCATGTCCGCCATGTCCACCATGTCCACC 125
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Search completed: March 27, 2006, 14:47:07
Job time : 321.3 secs
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GenCore version 5.1.7
Copyright (c) 1993 - 2006 Bioceleration Ltd.

OM protein - protein search, using sw model

Run on: March 27, 2006, 19:42:01 ; Search time 63 Seconds
(without alignments)
132.644 Million cell updates/sec

Title: US-10-057-136A-1
Perfect score: 109
Sequence: 1 GSTAPPAHGVTAPDTRPAP 20

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1867569 seqs, 417829326 residues

Total number of hits satisfying chosen parameters: 1867569

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published Applications AA Main:*

- 1: /cgn2_6/ptodata/1/pubpaa/US07_PUBCOMB.pep:*
- 2: /cgn2_6/ptodata/1/pubpaa/US08_PUBCOMB.pep:*
- 3: /cgn2_6/ptodata/1/pubpaa/US09_PUBCOMB.pep:*
- 4: /cgn2_6/ptodata/1/pubpaa/US10A_PUBCOMB.pep:*
- 5: /cgn2_6/ptodata/1/pubpaa/US10B_PUBCOMB.pep:*
- 6: /cgn2_6/ptodata/1/pubpaa/US11_PUBCOMB.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	109	100.0	20	3	US-09-994-466-1 Sequence 1, Appli
2	109	100.0	20	4	US-10-057-136-1 Sequence 1, Appli
3	109	100.0	20	5	US-10-754-089-1 Sequence 1, Appli
4	109	100.0	31	3	US-09-994-466-11 Sequence 11, Appli
5	109	100.0	40	3	US-09-996-069-9 Sequence 9, Appli
6	109	100.0	40	5	US-10-635-211-4 Sequence 4, Appli
7	109	100.0	43	4	US-10-106-876-14 Sequence 14, Appli
8	109	100.0	46	3	US-09-996-069-5 Sequence 5, Appli
9	109	100.0	46	4	US-10-106-876-1 Sequence 1, Appli
10	109	100.0	100	3	US-09-965-131-6 Sequence 6, Appli
11	109	100.0	159	5	US-10-635-211-9 Sequence 9, Appli
12	109	100.0	475	4	US-10-417-312-1 Sequence 1, Appli
13	109	100.0	475	5	US-10-696-639-59 Sequence 59, Appli
14	109	100.0	475	5	US-10-756-149-5038 Sequence 5038, Ap
15	109	100.0	475	6	US-11-055-119-67 Sequence 67, Appli
16	109	100.0	508	4	US-10-057-136-20 Sequence 20, Appli
17	109	100.0	586	5	US-10-635-211-2 Sequence 2, Appli
18	109	100.0	1255	3	US-09-996-069-10 Sequence 10, Appli
19	109	100.0	1255	4	US-10-171-311-158 Sequence 158, App
20	109	100.0	1255	4	US-10-177-293-311 Sequence 311, App
21	109	100.0	1255	4	US-10-734-564-120 Sequence 120, App
22	109	100.0	1255	5	US-10-473-484-2 Sequence 2, Appli
23	109	100.0	1255	5	US-10-997-055-2 Sequence 2, Appli
24	109	100.0	1255	6	US-11-037-713-20 Sequence 20, Appli
25	109	100.0	1255	6	US-11-009-533-2 Sequence 2, Appli
26	104	95.4	495	6	US-11-055-119-2 Sequence 2, Appli
27	104	95.4	515	4	US-10-097-340-212 Sequence 212, App

28	104	95.4	515	4	US-10-171-311-156	Sequence 156, App
29	104	95.4	515	4	US-10-612-090-19	Sequence 19, Appl
30	104	95.4	515	6	US-11-050-926-212	Sequence 212, App
31	103	94.5	26	3	US-09-815-346-5	Sequence 5, Appli
32	103	94.5	26	4	US-10-106-876-8	Sequence 8, Appli
33	103	94.5	27	3	US-09-870-691-1	Sequence 1, Appli
34	103	94.5	27	3	US-09-999-191-1	Sequence 1, Appli
35	103	94.5	27	4	US-10-106-876-12	Sequence 12, Appl
36	103	94.5	28	4	US-10-106-876-13	Sequence 13, Appl
37	100	91.7	20	4	US-10-057-136-16	Sequence 16, Appl
38	99	90.8	20	3	US-09-984-333-9	Sequence 9, Appli
39	99	90.8	24	4	US-10-292-896-2	Sequence 2, Appli
40	99	90.8	24	5	US-10-705-401-2	Sequence 2, Appli
41	99	90.8	25	3	US-09-881-339-3	Sequence 3, Appli
42	99	90.8	25	4	US-10-417-633-3	Sequence 3, Appli
43	99	90.8	27	3	US-09-815-346-4	Sequence 4, Appli
44	99	90.8	27	4	US-10-106-876-7	Sequence 7, Appli
45	99	90.8	27	4	US-10-106-876-9	Sequence 9, Appli

ALIGNMENTS

```
RESULT 1
US-09-994-466-1
; Sequence 1, Application US/09994466
; Publication No. US20020132771A1
; GENERAL INFORMATION:
; APPLICANT: Madiyalakan, R.
; TITLE OF INVENTION: THERAPEUTIC BINDING AGENTS AGAINST MUC-1 ANTIGEN AND METHODS FOR
; FILE REFERENCE: AREX-P03-002
; CURRENT APPLICATION NUMBER: US/09/994,466
; PRIOR FILING DATE: 2001-11-26
; PRIOR APPLICATION NUMBER: 09/724094
; PRIOR FILING DATE: 2000-11-28
; NUMBER OF SEQ ID NOS: 11
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 1
; LENGTH: 20
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-09-994-466-1

Query Match          100.0%; Score 109; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 2.5e-07;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1 GSTAPPAHGVTAPDTRPAP 20
Db      1 GSTAPPAHGVTAPDTRPAP 20

RESULT 2
US-10-057-136-1
; Sequence 1, Application US/10057136
; Publication No. US20030021770A1
; GENERAL INFORMATION:
; APPLICANT: SCHLOM, JEFFREY
; APPLICANT: KANTOR, JUDITH
; APPLICANT: KUFU, DONALD
; APPLICANT: PANICALI, DENNIS
; APPLICANT: GRITZ, LINDA
; TITLE OF INVENTION: TUMOR-ASSOCIATED ANTIGEN
; FILE REFERENCE: 700953/47113C
; CURRENT APPLICATION NUMBER: US/10/057,136
; CURRENT FILING DATE: 2002-01-25
; PRIOR APPLICATION NUMBER: 09/366,670
; PRIOR FILING DATE: 1999-08-03
; PRIOR APPLICATION NUMBER: PCT/US98/03693
; PRIOR FILING DATE: 1998-02-24
; PRIOR APPLICATION NUMBER: 60/038,253
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; PRIOR FILING DATE: 1997-02-24
; NUMBER OF SEQ ID NOS: 20
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1
; LENGTH: 20
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-057-136-1

Query Match 100.0%; Score 109; DB 4; Length 20;
Best Local Similarity 100.0%; Pred. No. 2.5e-07;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GSTAPPAHGVTSA PDTRPAP 20
|||||
DB 1 GSTAPPAHGVTSA PDTRPAP 20

RESULT 3

US-10-754-089-1
; Sequence 1, Application US/10754089
; Publication No. US20050048059A1
; GENERAL INFORMATION:
; APPLICANT: Madiyalakan, Ragupathy
; TITLE OF INVENTION: Therapeutic Binding Agents Against MUC-1 Antigen and
; TITLE OF INVENTION: Methods
; TITLE OF INVENTION: For Their Use
; FILE REFERENCE: 107823.127
; CURRENT APPLICATION NUMBER: US/10/754,089
; CURRENT FILING DATE: 2004-01-07
; PRIOR APPLICATION NUMBER: US/09/641,833
; PRIOR FILING DATE: 2000-08-18
; NUMBER OF SEQ ID NOS: 5
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1
; LENGTH: 20
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: MUC-1 antigen
US-10-754-089-1

Query Match 100.0%; Score 109; DB 5; Length 20;
Best Local Similarity 100.0%; Pred. No. 2.5e-07;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GSTAPPAHGVTSA PDTRPAP 20
|||||
DB 1 GSTAPPAHGVTSA PDTRPAP 20

RESULT 4

US-09-994-466-11
; Sequence 11, Application US/09994466
; Publication No. US20020132771A1
; GENERAL INFORMATION:
; APPLICANT: Madiyalakan, R.
; TITLE OF INVENTION: THERAPEUTIC BINDING AGENTS AGAINST MUC-1 ANTIGEN AND METHODS FOR
; TITLE OF INVENTION: THEIR USE
; FILE REFERENCE: AREX-P03-002
; CURRENT APPLICATION NUMBER: US/09/994,466
; CURRENT FILING DATE: 2001-11-26
; PRIOR APPLICATION NUMBER: 09/724094
; PRIOR FILING DATE: 2000-11-28
; NUMBER OF SEQ ID NOS: 11
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 11
; LENGTH: 31
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-994-466-11

Query Match 100.0%; Score 109; DB 3; Length 31;

Best Local Similarity 100.0%; Pred. No. 3.8e-07;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GSTAPPAHGVTSA PDTRPAP 20
|||||
DB 9 GSTAPPAHGVTSA PDTRPAP 28

RESULT 5

US-09-996-069-9
; Sequence 9, Application US/09996069
; Publication No. US20030036199A1
; GENERAL INFORMATION:
; APPLICANT: Bamdad, Cynthia
; APPLICANT: Bamdad, R. Shoshana
; TITLE OF INVENTION: DIAGNOSTIC TUMOR MARKERS, DRUG SCREENING FOR TUMORIGENESIS INHIBIT
; TITLE OF INVENTION: AND COMPOSITIONS AND METHODS FOR TREATMENT OF CANCER
; FILE REFERENCE: M01015/70071
; CURRENT APPLICATION NUMBER: US/09/996,069
; CURRENT FILING DATE: 2001-11-27
; NUMBER OF SEQ ID NOS: 35
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 9
; LENGTH: 40
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-996-069-9

Query Match 100.0%; Score 109; DB 3; Length 40;
Best Local Similarity 100.0%; Pred. No. 5e-07;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GSTAPPAHGVTSA PDTRPAP 20
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DB 8 GSTAPPAHGVTSA PDTRPAP 27

RESULT 6

US-10-635-211-4
; Sequence 4, Application US/10635211
; Publication No. US20050031649A1
; GENERAL INFORMATION:
; APPLICANT: Beijing HYDVAX Biotechnology Co. Ltd
; TITLE OF INVENTION: A recombinant fusion protein comprising BCG heat shock protein 65
; TITLE OF INVENTION: and the epitope of MUC1
; FILE REFERENCE: FP03012US
; CURRENT APPLICATION NUMBER: US/10/635,211
; CURRENT FILING DATE: 2003-08-06
; NUMBER OF SEQ ID NOS: 9
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 4
; LENGTH: 40
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-635-211-4

Query Match 100.0%; Score 109; DB 5; Length 40;
Best Local Similarity 100.0%; Pred. No. 5e-07;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GSTAPPAHGVTSA PDTRPAP 20
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DB 1 GSTAPPAHGVTSA PDTRPAP 20

RESULT 7

US-10-106-876-14
; Sequence 14, Application US/10106876
; Publication No. US20030157160A1
; GENERAL INFORMATION:
; APPLICANT: BUDZYNSKI, WLADYSLAW A.
; APPLICANT: KOGANTY, R. RAO
; APPLICANT: KRANTZ, MARK J.

```
; APPLICANT: LONGENECKER, B. MICHAEL
; TITLE OF INVENTION: VACCINE FOR MODULATING BETWEEN T1 AND T2 IMMUNE
; TITLE OF INVENTION: RESPONSES
; FILE REFERENCE: 042881-0176
; CURRENT APPLICATION NUMBER: US/10/106,876
; PRIOR FILING DATE: 2002-03-27
; PRIOR APPLICATION NUMBER: 60/278,698
; NUMBER OF SEQ ID NOS: 20
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 14
; LENGTH: 43
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
; OTHER INFORMATION: peptide
US-10-106-876-14
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Query Match          100.0%; Score 109; DB 4; Length 43;
Best Local Similarity 100.0%; Pred. No. 5.4e-07;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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QY      1 GSTAPPAHGVTSAPDTRPAP 20
         |||||
Db       11 GSTAPPAHGVTSAPDTRPAP 30
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RESULT 8
US-09-996-069-5
; Sequence 5, Application US/09996069
; Publication No. US20030036199A1
; GENERAL INFORMATION:
; APPLICANT: Bamedad, Cynthia
; APPLICANT: Bamedad, R. Shoshana
; TITLE OF INVENTION: DIAGNOSTIC TUMOR MARKERS, DRUG SCREENING FOR TUMORIGENESIS INHIBIT
; TITLE OF INVENTION: AND COMPOSITIONS AND METHODS FOR TREATMENT OF CANCER
; FILE REFERENCE: M01015/70071
; CURRENT APPLICATION NUMBER: US/09/996,069
; CURRENT FILING DATE: 2001-11-27
; NUMBER OF SEQ ID NOS: 35
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 5
; LENGTH: 46
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-996-069-5
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Query Match          100.0%; Score 109; DB 3; Length 46;
Best Local Similarity 100.0%; Pred. No. 5.8e-07;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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QY      1 GSTAPPAHGVTSAPDTRPAP 20
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Db       8 GSTAPPAHGVTSAPDTRPAP 27
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RESULT 9
US-10-106-876-1
; Sequence 1, Application US/10106876
; Publication No. US20030157160A1
; GENERAL INFORMATION:
; APPLICANT: BUZDZYSKI, WLADYSLAW A.
; APPLICANT: KOGANTY, R. RAO
; APPLICANT: KRANTZ, MARK J.
; APPLICANT: LONGENECKER, B. MICHAEL
; TITLE OF INVENTION: VACCINE FOR MODULATING BETWEEN T1 AND T2 IMMUNE
; TITLE OF INVENTION: RESPONSES
; FILE REFERENCE: 042881-0176
; CURRENT APPLICATION NUMBER: US/10/106,876
; CURRENT FILING DATE: 2002-03-27
; PRIOR APPLICATION NUMBER: 60/278,698
; PRIOR FILING DATE: 2001-03-27
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; NUMBER OF SEQ ID NOS: 20
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1
; LENGTH: 46
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
; OTHER INFORMATION: peptide
US-10-106-876-1
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Query Match          100.0%; Score 109; DB 4; Length 46;
Best Local Similarity 100.0%; Pred. No. 5.8e-07;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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QY      1 GSTAPPAHGVTSAPDTRPAP 20
         |||||
Db       14 GSTAPPAHGVTSAPDTRPAP 33
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RESULT 10
US-09-965-131-6
; Sequence 6, Application US/09965131
; Patent No. US20020160502A1
; GENERAL INFORMATION:
; APPLICANT: Chung, Maureen A.
; APPLICANT: Sharma, Surendra
; APPLICANT: Chang, Helena R.
; APPLICANT: O'Donnell, Mark A.
; TITLE OF INVENTION: RECOMBINANT BCG VACCINES FOR THE
; TITLE OF INVENTION: PREVENTION AND TREATMENT OF CANCER
; FILE REFERENCE: W11-014CP
; CURRENT APPLICATION NUMBER: US/09/965,131
; CURRENT FILING DATE: 2001-09-26
; PRIOR APPLICATION NUMBER: 60/235,455
; PRIOR FILING DATE: 2000-09-26
; NUMBER OF SEQ ID NOS: 6
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 6
; LENGTH: 100
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-965-131-6
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Query Match          100.0%; Score 109; DB 3; Length 100;
Best Local Similarity 100.0%; Pred. No. 1.3e-06;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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QY      1 GSTAPPAHGVTSAPDTRPAP 20
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Db       13 GSTAPPAHGVTSAPDTRPAP 32
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RESULT 11
US-10-635-211-9
; Sequence 9, Application US/10635211
; Publication No. US20050031649A1
; GENERAL INFORMATION:
; APPLICANT: Beijing HYDVAX Biotechnology Co. Ltd
; TITLE OF INVENTION: A recombinant fusion protein comprising BCG heat shock protein 65
; TITLE OF INVENTION: and the epitope of MUC1
; FILE REFERENCE: FP03012US
; CURRENT APPLICATION NUMBER: US/10/635,211
; CURRENT FILING DATE: 2003-08-06
; NUMBER OF SEQ ID NOS: 9
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 9
; LENGTH: 159
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Fusion Protein
US-10-635-211-9
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Query Match 100.0%; Score 109; DB 5; Length 159;
Best Local Similarity 100.0%; Pred. No. 2.1e-06;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GSTAPPAHGVTAPDTRPAP 20
|||||
DB 14 GSTAPPAHGVTAPDTRPAP 33

RESULT 12
US-10-417-312-1

; Sequence 1, Application US/10417312
; Publication No. US20030235868A1
; GENERAL INFORMATION:

; APPLICANT: Dyax Corp
; TITLE OF INVENTION: Antibodies Specific for Mucin Polypeptide
; FILE REFERENCE: 2403/2002
; CURRENT APPLICATION NUMBER: US/10/417,312
; CURRENT FILING DATE: 2003-04-16
; PRIOR APPLICATION NUMBER: US 60/374,432
; PRIOR FILING DATE: 2002-04-22
; NUMBER OF SEQ ID NOS: 9
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 1
; LENGTH: 475
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-417-312-1

Query Match 100.0%; Score 109; DB 4; Length 475;
Best Local Similarity 100.0%; Pred. No. 6.4e-06;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GSTAPPAHGVTAPDTRPAP 20
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DB 129 GSTAPPAHGVTAPDTRPAP 148

RESULT 13
US-10-696-639-59

; Sequence 59, Application US/10696639
; Publication No. US20050037439A1
; GENERAL INFORMATION:
; APPLICANT: Pharmacia Corporation
; APPLICANT: Bourner, Maureen J.
; TITLE OF INVENTION: DIFFERENTIALLY EXPRESSED GENES INVOLVED IN CANCER, THE
; TITLE OF INVENTION: POLYPEPTIDES ENCODED THEREBY, AND METHODS OF USING THE SAME
; FILE REFERENCE: 01040/1
; CURRENT APPLICATION NUMBER: US/10/696,639
; CURRENT FILING DATE: 2003-10-29
; PRIOR APPLICATION NUMBER: 60/422,176
; PRIOR FILING DATE: 2002-10-29
; NUMBER OF SEQ ID NOS: 3114
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 59
; LENGTH: 475
; TYPE: PRT
; ORGANISM: homo sapiens
US-10-696-639-59

Query Match 100.0%; Score 109; DB 5; Length 475;
Best Local Similarity 100.0%; Pred. No. 6.4e-06;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GSTAPPAHGVTAPDTRPAP 20
|||||
DB 129 GSTAPPAHGVTAPDTRPAP 148

RESULT 14
US-10-756-149-5038
; Sequence 5038, Application US/10756149

; Publication No. US20050181375A1
; GENERAL INFORMATION:

; APPLICANT: Aziz, Natasha
; APPLICANT: Zlotnik, Albert
; TITLE OF INVENTION: NOVEL METHODS OF DIAGNOSIS OF METASTATIC CANCER, COMPOSITIONS AND
; FILE REFERENCE: file
; CURRENT APPLICATION NUMBER: US/10/756,149
; CURRENT FILING DATE: 2004-01-12
; NUMBER OF SEQ ID NOS: 5818
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 5038
; LENGTH: 475
; TYPE: PRT
; ORGANISM: Homo Sapiens
US-10-756-149-5038

Query Match 100.0%; Score 109; DB 5; Length 475;
Best Local Similarity 100.0%; Pred. No. 6.4e-06;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GSTAPPAHGVTAPDTRPAP 20
|||||
DB 129 GSTAPPAHGVTAPDTRPAP 148

RESULT 15
US-11-055-119-67

; Sequence 67, Application US/11055119
; Publication No. US20050142640A1
; GENERAL INFORMATION:
; APPLICANT: Taylor-Papadimitriou, Joyce
; APPLICANT: Heukamp, Lukas Carl
; APPLICANT: Offringa, Rienk
; APPLICANT: Melief, Cornelis Johanna Maria
; APPLICANT: Acres, Bruce
; APPLICANT: Thomas, Mireille
; TITLE OF INVENTION: MUC-1 derived peptides
; FILE REFERENCE: 029395-017
; CURRENT APPLICATION NUMBER: US/11/055,119
; CURRENT FILING DATE: 2005-02-11
; PRIOR APPLICATION NUMBER: US/09/658,621
; PRIOR FILING DATE: 2000-09-08
; PRIOR APPLICATION NUMBER: US 60/187,215
; PRIOR FILING DATE: 2000-03-03
; PRIOR APPLICATION NUMBER: GB 9921242.5
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: EP 99 40 2237.4
; PRIOR FILING DATE: 1999-09-10
; NUMBER OF SEQ ID NOS: 80
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 67
; LENGTH: 475
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-055-119-67

Query Match 100.0%; Score 109; DB 6; Length 475;
Best Local Similarity 100.0%; Pred. No. 6.4e-06;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GSTAPPAHGVTAPDTRPAP 20
|||||
DB 129 GSTAPPAHGVTAPDTRPAP 148

Search completed: March 27, 2006, 19:43:24
Job time : 63 secs

GenCore version 5.1.7
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OM protein - protein search, using sw model

Run on: March 27, 2006, 19:42:31 ; Search time 10 Seconds
(without alignments)
58.989 Million cell updates/sec

Title: US-10-057-136A-1
Perfect score: 109
Sequence: 1 GSTAPPAHGVTSA PDTRPAP 20

Scoring table: BIOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 174695 seqs, 29494374 residues

Total number of hits satisfying chosen parameters: 174695

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published Applications AA New: *
1: /SIDS5/ptodata/2/pubppaa/US08_NEW_PUB.pep: *
2: /SIDS5/ptodata/2/pubppaa/US06_NEW_PUB.pep: *
3: /SIDS5/ptodata/2/pubppaa/US07_NEW_PUB.pep: *
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8: /SIDS5/ptodata/2/pubppaa/US60_NEW_PUB.pep: *

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	109	100.0	20	7 US-11-126-798-33	Sequence 33, Appl
2	109	100.0	23	7 US-11-126-798-34	Sequence 34, Appl
3	109	100.0	316	6 US-10-517-696-126	Sequence 126, App
4	109	100.0	325	6 US-10-517-696-148	Sequence 148, App
5	109	100.0	336	6 US-10-517-696-153	Sequence 153, App
6	109	100.0	350	6 US-10-517-696-125	Sequence 125, App
7	109	100.0	372	6 US-10-517-696-129	Sequence 129, App
8	109	100.0	379	6 US-10-517-696-150	Sequence 150, App
9	109	100.0	396	6 US-10-517-696-147	Sequence 147, App
10	109	100.0	398	6 US-10-517-696-136	Sequence 136, App
11	109	100.0	409	6 US-10-517-696-149	Sequence 149, App
12	109	100.0	420	6 US-10-517-696-141	Sequence 141, App
13	109	100.0	463	6 US-10-517-696-121	Sequence 121, App
14	109	100.0	475	6 US-10-501-035-309	Sequence 309, App
15	109	100.0	475	6 US-10-517-696-117	Sequence 117, App
16	109	100.0	483	6 US-10-517-696-132	Sequence 132, App
17	109	100.0	484	6 US-10-517-696-120	Sequence 120, App
18	109	100.0	485	6 US-10-517-696-142	Sequence 142, App
19	109	100.0	492	6 US-10-517-696-131	Sequence 131, App
20	109	100.0	515	6 US-10-517-696-114	Sequence 114, App
21	109	100.0	517	6 US-10-517-696-144	Sequence 144, App
22	109	100.0	524	6 US-10-517-696-113	Sequence 113, App
23	109	100.0	524	6 US-10-517-696-122	Sequence 122, App
24	109	100.0	614	6 US-10-517-696-128	Sequence 128, App
25	109	100.0	728	6 US-10-517-696-112	Sequence 112, App

26	109	100.0	1255	7 US-11-050-857-487	Sequence 487, App
27	109	100.0	1255	7 US-11-043-806-398	Sequence 398, App
28	109	100.0	1256	6 US-10-517-696-111	Sequence 111, App
29	102	93.6	156	6 US-10-401-386B-44	Sequence 44, Appl
30	101	92.7	109	6 US-10-517-696-115	Sequence 115, App
31	99	90.8	24	7 US-11-033-365-140	Sequence 140, App
32	97	89.0	307	6 US-10-401-386B-31	Sequence 31, Appl
33	91	83.5	20	7 US-11-202-516-33	Sequence 33, Appl
34	90	82.6	174	6 US-10-517-696-116	Sequence 116, App
35	88	80.7	20	7 US-11-126-798-55	Sequence 55, Appl
36	86	78.9	256	6 US-10-517-696-130	Sequence 130, App
37	86	78.9	435	6 US-10-517-696-123	Sequence 123, App
38	72	66.1	20	7 US-11-033-365-138	Sequence 138, App
39	72	66.1	20	7 US-11-033-365-139	Sequence 139, App
40	68	62.4	20	6 US-10-618-481-50	Sequence 50, Appl
41	60	55.0	12	6 US-10-401-386B-60	Sequence 60, Appl
42	55	50.5	933	7 US-11-072-512-2299	Sequence 2299, Ap
43	51	46.8	293	7 US-11-096-568A-15588	Sequence 15588, A
44	51	46.8	297	7 US-11-096-568A-15587	Sequence 15587, A
45	51	46.8	336	7 US-11-096-568A-15586	Sequence 15586, A

ALIGNMENTS

RESULT 1
US-11-126-798-33
; Sequence 33, Application US/11126798
; Publication No. US20060018895A1
; GENERAL INFORMATION:
; APPLICANT: Chatterjee, Malaya
; Foon, Kenneth A.
; Chatterjee, Sunil K.
; TITLE OF INVENTION: MURINE MONOCLONAL ANTI-IDIOTYPE ANTIBODY
; 11D10 AND METHODS OF USE THEREOF
; NUMBER OF SEQUENCES: 59
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORRISON & FOERSTER
; STREET: 755 PAGE MILL ROAD
; CITY: PALO ALTO
; STATE: CA
; COUNTRY: USA
; ZIP: 94304-1018
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/11/126,798
; FILING DATE: 10-May-2005
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/08/836,455
; FILING DATE: 09-MAY-1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Polizzi, Catherine M.
; REGISTRATION NUMBER: 40,130
; REFERENCE/DOCKET NUMBER: 30414-20003.22
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (650) 813-5600
; TELEFAX: (650) 494-0792
; TELEX: 706141
; INFORMATION FOR SEQ ID NO: 33:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 20 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; FEATURE:
; NAME/KEY: Modified-site
; LOCATION: 9
; OTHER INFORMATION: /note= "May also be the amino acid


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;
; arginine(R)"
;
; FEATURE:
;   NAME/KEY: Modified-site
;   LOCATION: 15
;   OTHER INFORMATION: /note= "May also be the amino acid
;   glutamine(E)"
;
; FEATURE:
;   NAME/KEY: Modified-site
;   LOCATION: 16
;   OTHER INFORMATION: /note= "May also be the amino acid
;   serine(S)"
;
; FEATURE:
;   NAME/KEY: Modified-site
;   LOCATION: 19
;   OTHER INFORMATION: /note= "May also be the amino acid
;   proline(P)"
;
; SEQUENCE DESCRIPTION: SEQ ID NO: 33:
US-11-126-798-33

Query Match      100.0%; Score 109, DB 7; Length 20;
Best Local Similarity 100.0%; Pred. No. 1.6e-09;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1 GSTAPPAHGVTSPDTRPAP 20
Db      1 GSTAPPAHGVTSPDTRPAP 20

RESULT 2
US-11-126-798-34
; Sequence 34, Application US/11126798
; Publication No. US20060018895A1
; GENERAL INFORMATION:
;   APPLICANT: Chatterjee, Malaya
;             Foon, Kenneth A.
;             Chatterjee, Sunil K.
;   TITLE OF INVENTION: MURINE MONOCLONAL ANTI-IDIOTYPE ANTIBODY
;             11D10 AND METHODS OF USE THEREOF
;   NUMBER OF SEQUENCES: 59
;   CORRESPONDENCE ADDRESS:
;     ADDRESSEE: MORRISON & FOERSTER
;     STREET: 755 PAGE MILL ROAD
;     CITY: PALO ALTO
;     STATE: CA
;     COUNTRY: USA
;     ZIP: 94304-1018
;   COMPUTER READABLE FORM:
;     MEDIUM TYPE: Floppy disk
;     COMPUTER: IBM PC compatible
;     OPERATING SYSTEM: PC-DOS/MS-DOS
;     SOFTWARE: PatentIn Release #1.0, Version #1.30
;   CURRENT APPLICATION DATA:
;     APPLICATION NUMBER: US/11/126,798
;     FILING DATE: 10-May-2005
;     CLASSIFICATION: <Unknown>
;   PRIOR APPLICATION DATA:
;     APPLICATION NUMBER: US/08/836,455
;     FILING DATE: 09-MAY-1997
;   ATTORNEY/AGENT INFORMATION:
;     NAME: Polizzi, Catherine M.
;     REGISTRATION NUMBER: 40,130
;     REFERENCE/DOCKET NUMBER: 30414-20003.22
;   TELECOMMUNICATION INFORMATION:
;     TELEPHONE: (650) 813-5600
;     TELEFAX: (650) 494-0792
;     TELEX: 706141
;   INFORMATION FOR SEQ ID NO: 34:
;     SEQUENCE CHARACTERISTICS:
;       LENGTH: 23 amino acids
;       TYPE: amino acid
;       STRANDEDNESS: single
;       TOPOLOGY: linear
;   FEATURE:

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; NAME/KEY: Modified-site
;   LOCATION: 12
;   OTHER INFORMATION: /note= "May also be the amino acid
;   arginine(R)"
;
; FEATURE:
;   NAME/KEY: Modified-site
;   LOCATION: 18
;   OTHER INFORMATION: /note= "May also be the amino acid
;   glutamine(E)"
;
; FEATURE:
;   NAME/KEY: Modified-site
;   LOCATION: 19
;   OTHER INFORMATION: /note= "May also be the amino acid
;   serine(S)"
;
; FEATURE:
;   NAME/KEY: Modified-site
;   LOCATION: 22
;   OTHER INFORMATION: /note= "May also be the amino acid
;   proline(P)"
;
; FEATURE:
;   NAME/KEY: Modified-site
;   LOCATION: 2
;   OTHER INFORMATION: /note= "May also be the amino acid
;   proline(P)"
;
; SEQUENCE DESCRIPTION: SEQ ID NO: 34:
US-11-126-798-34

Query Match      100.0%; Score 109, DB 7; Length 23;
Best Local Similarity 100.0%; Pred. No. 1.9e-09;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1 GSTAPPAHGVTSPDTRPAP 20
Db      4 GSTAPPAHGVTSPDTRPAP 23

RESULT 3
US-10-517-696-126
; Sequence 126, Application US/10517696
; Publication No. US20060051759A1
; GENERAL INFORMATION:
;   APPLICANT: diadexus, Inc.
;   APPLICANT: Salceda, Susana
;   APPLICANT: Macina, Roberto A.
;   APPLICANT: Turner, Leah R.
;   APPLICANT: Sun, Yongming
;   APPLICANT: Liu, Chenghua
;   TITLE OF INVENTION: Compositions and Methods Relating to Breast Specific Genes and Prc
;   FILE REFERENCE: DEX-0432
;   CURRENT APPLICATION NUMBER: US/10/517,696
;   PRIOR FILING DATE: 2004-12-13
;   PRIOR APPLICATION NUMBER: US 60/389,327
;   PRIOR FILING DATE: 2002-06-14
;   NUMBER OF SEQ ID NOS: 171
;   SOFTWARE: PatentIn version 3.1
;   SEQ ID NO 126
;   LENGTH: 316
;   TYPE: PRT
;   ORGANISM: Homo sapien
US-10-517-696-126

Query Match      100.0%; Score 109, DB 6; Length 316;
Best Local Similarity 100.0%; Pred. No. 3.2e-08;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1 GSTAPPAHGVTSPDTRPAP 20
Db      138 GSTAPPAHGVTSPDTRPAP 157

RESULT 4
US-10-517-696-148
; Sequence 148, Application US/10517696

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; Publication No. US20060051759A1
; GENERAL INFORMATION:
; APPLICANT: diadexus, Inc.
; APPLICANT: Salceda, Susana
; APPLICANT: Macina, Roberto A.
; APPLICANT: Turner, Leah R.
; APPLICANT: Sun, Yongming
; APPLICANT: Liu, Chenghua
; TITLE OF INVENTION: Compositions and Methods Relating to Breast Specific Genes and Pr
; FILE REFERENCE: DEX-0432
; CURRENT APPLICATION NUMBER: US/10/517,696
; CURRENT FILING DATE: 2004-12-13
; PRIOR APPLICATION NUMBER: US 60/389,327
; PRIOR FILING DATE: 2002-06-14
; NUMBER OF SEQ ID NOS: 171
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 148
; LENGTH: 325
; TYPE: PRT
; ORGANISM: Homo sapien
US-10-517-696-148

Query Match          100.0%; Score 109; DB 6; Length 325;
Best Local Similarity 100.0%; Pred. No. 3.3e-08;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 GSTAPPAHGVTSA PDTRPAP 20
Db      138 GSTAPPAHGVTSA PDTRPAP 157

RESULT 5
US-10-517-696-153
; Sequence 153, Application US/10517696
; Publication No. US20060051759A1
; GENERAL INFORMATION:
; APPLICANT: diadexus, Inc.
; APPLICANT: Salceda, Susana
; APPLICANT: Macina, Roberto A.
; APPLICANT: Turner, Leah R.
; APPLICANT: Sun, Yongming
; APPLICANT: Liu, Chenghua
; TITLE OF INVENTION: Compositions and Methods Relating to Breast Specific Genes and Pr
; FILE REFERENCE: DEX-0432
; CURRENT APPLICATION NUMBER: US/10/517,696
; CURRENT FILING DATE: 2004-12-13
; PRIOR APPLICATION NUMBER: US 60/389,327
; PRIOR FILING DATE: 2002-06-14
; NUMBER OF SEQ ID NOS: 171
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 153
; LENGTH: 336
; TYPE: PRT
; ORGANISM: Homo sapien
US-10-517-696-153

Query Match          100.0%; Score 109; DB 6; Length 336;
Best Local Similarity 100.0%; Pred. No. 3.4e-08;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 GSTAPPAHGVTSA PDTRPAP 20
Db      138 GSTAPPAHGVTSA PDTRPAP 157

RESULT 6
US-10-517-696-125
; Sequence 125, Application US/10517696
; Publication No. US20060051759A1
; GENERAL INFORMATION:
; APPLICANT: diadexus, Inc.
; APPLICANT: Salceda, Susana
; APPLICANT: Macina, Roberto A.
; APPLICANT: Turner, Leah R.
; APPLICANT: Sun, Yongming
; APPLICANT: Liu, Chenghua
; TITLE OF INVENTION: Compositions and Methods Relating to Breast Specific Genes and Pr
```

```
; APPLICANT: Turner, Leah R.
; APPLICANT: Sun, Yongming
; APPLICANT: Liu, Chenghua
; TITLE OF INVENTION: Compositions and Methods Relating to Breast Specific Genes and Pr
; FILE REFERENCE: DEX-0432
; CURRENT APPLICATION NUMBER: US/10/517,696
; CURRENT FILING DATE: 2004-12-13
; PRIOR APPLICATION NUMBER: US 60/389,327
; PRIOR FILING DATE: 2002-06-14
; NUMBER OF SEQ ID NOS: 171
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 125
; LENGTH: 350
; TYPE: PRT
; ORGANISM: Homo sapien
US-10-517-696-125

Query Match          100.0%; Score 109; DB 6; Length 350;
Best Local Similarity 100.0%; Pred. No. 3.5e-08;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 GSTAPPAHGVTSA PDTRPAP 20
Db      138 GSTAPPAHGVTSA PDTRPAP 157

RESULT 7
US-10-517-696-129
; Sequence 129, Application US/10517696
; Publication No. US20060051759A1
; GENERAL INFORMATION:
; APPLICANT: diadexus, Inc.
; APPLICANT: Salceda, Susana
; APPLICANT: Macina, Roberto A.
; APPLICANT: Turner, Leah R.
; APPLICANT: Sun, Yongming
; APPLICANT: Liu, Chenghua
; TITLE OF INVENTION: Compositions and Methods Relating to Breast Specific Genes and Pr
; FILE REFERENCE: DEX-0432
; CURRENT APPLICATION NUMBER: US/10/517,696
; CURRENT FILING DATE: 2004-12-13
; PRIOR APPLICATION NUMBER: US 60/389,327
; PRIOR FILING DATE: 2002-06-14
; NUMBER OF SEQ ID NOS: 171
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 129
; LENGTH: 372
; TYPE: PRT
; ORGANISM: Homo sapien
US-10-517-696-129

Query Match          100.0%; Score 109; DB 6; Length 372;
Best Local Similarity 100.0%; Pred. No. 3.8e-08;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 GSTAPPAHGVTSA PDTRPAP 20
Db      138 GSTAPPAHGVTSA PDTRPAP 157

RESULT 8
US-10-517-696-150
; Sequence 150, Application US/10517696
; Publication No. US20060051759A1
; GENERAL INFORMATION:
; APPLICANT: diadexus, Inc.
; APPLICANT: Salceda, Susana
; APPLICANT: Macina, Roberto A.
; APPLICANT: Turner, Leah R.
; APPLICANT: Sun, Yongming
; APPLICANT: Liu, Chenghua
; TITLE OF INVENTION: Compositions and Methods Relating to Breast Specific Genes and Pr
; FILE REFERENCE: DEX-0432
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; CURRENT APPLICATION NUMBER: US/10/517,696
; CURRENT FILING DATE: 2004-12-13
; PRIOR APPLICATION NUMBER: US 60/389,327
; PRIOR FILING DATE: 2002-06-14
; NUMBER OF SEQ ID NOS: 171
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 150
; LENGTH: 379
; TYPE: PRT
; ORGANISM: Homo sapien
US-10-517-696-150

Query Match          100.0%; Score 109; DB 6; Length 379;
Best Local Similarity 100.0%; Pred. No. 3.9e-08;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 GSTAPPAHGVTSA PDTRPAP 20
DB      138 GSTAPPAHGVTSA PDTRPAP 157

RESULT 9
US-10-517-696-147
; Sequence 147, Application US/10517696
; Publication No. US20060051759A1
; GENERAL INFORMATION:
; APPLICANT: diadexus, Inc.
; APPLICANT: Salceda, Susana
; APPLICANT: Macina, Roberto A.
; APPLICANT: Turner, Leah R.
; APPLICANT: Sun, Yongming
; APPLICANT: Liu, Chenghua
; TITLE OF INVENTION: Compositions and Methods Relating to Breast Specific Genes and Pr
; FILE REFERENCE: DEX-0432
; CURRENT APPLICATION NUMBER: US/10/517,696
; CURRENT FILING DATE: 2004-12-13
; PRIOR APPLICATION NUMBER: US 60/389,327
; PRIOR FILING DATE: 2002-06-14
; NUMBER OF SEQ ID NOS: 171
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 147
; LENGTH: 396
; TYPE: PRT
; ORGANISM: Homo sapien
US-10-517-696-147

Query Match          100.0%; Score 109; DB 6; Length 396;
Best Local Similarity 100.0%; Pred. No. 4e-08;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 GSTAPPAHGVTSA PDTRPAP 20
DB      138 GSTAPPAHGVTSA PDTRPAP 157

RESULT 10
US-10-517-696-136
; Sequence 136, Application US/10517696
; Publication No. US20060051759A1
; GENERAL INFORMATION:
; APPLICANT: diadexus, Inc.
; APPLICANT: Salceda, Susana
; APPLICANT: Macina, Roberto A.
; APPLICANT: Turner, Leah R.
; APPLICANT: Sun, Yongming
; APPLICANT: Liu, Chenghua
; TITLE OF INVENTION: Compositions and Methods Relating to Breast Specific Genes and Pr
; FILE REFERENCE: DEX-0432
; CURRENT APPLICATION NUMBER: US/10/517,696
; CURRENT FILING DATE: 2004-12-13
; PRIOR APPLICATION NUMBER: US 60/389,327
; PRIOR FILING DATE: 2002-06-14
; NUMBER OF SEQ ID NOS: 171
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 141
; LENGTH: 420
; TYPE: PRT
; ORGANISM: Homo sapien
US-10-517-696-141
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; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 136
; LENGTH: 398
; TYPE: PRT
; ORGANISM: Homo sapien
US-10-517-696-136

Query Match          100.0%; Score 109; DB 6; Length 398;
Best Local Similarity 100.0%; Pred. No. 4.1e-08;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 GSTAPPAHGVTSA PDTRPAP 20
DB      138 GSTAPPAHGVTSA PDTRPAP 157

RESULT 11
US-10-517-696-149
; Sequence 149, Application US/10517696
; Publication No. US20060051759A1
; GENERAL INFORMATION:
; APPLICANT: diadexus, Inc.
; APPLICANT: Salceda, Susana
; APPLICANT: Macina, Roberto A.
; APPLICANT: Turner, Leah R.
; APPLICANT: Sun, Yongming
; APPLICANT: Liu, Chenghua
; TITLE OF INVENTION: Compositions and Methods Relating to Breast Specific Genes and Pr
; FILE REFERENCE: DEX-0432
; CURRENT APPLICATION NUMBER: US/10/517,696
; CURRENT FILING DATE: 2004-12-13
; PRIOR APPLICATION NUMBER: US 60/389,327
; PRIOR FILING DATE: 2002-06-14
; NUMBER OF SEQ ID NOS: 171
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 149
; LENGTH: 409
; TYPE: PRT
; ORGANISM: Homo sapien
US-10-517-696-149

Query Match          100.0%; Score 109; DB 6; Length 409;
Best Local Similarity 100.0%; Pred. No. 4.2e-08;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 GSTAPPAHGVTSA PDTRPAP 20
DB      138 GSTAPPAHGVTSA PDTRPAP 157

RESULT 12
US-10-517-696-141
; Sequence 141, Application US/10517696
; Publication No. US20060051759A1
; GENERAL INFORMATION:
; APPLICANT: diadexus, Inc.
; APPLICANT: Salceda, Susana
; APPLICANT: Macina, Roberto A.
; APPLICANT: Turner, Leah R.
; APPLICANT: Sun, Yongming
; APPLICANT: Liu, Chenghua
; TITLE OF INVENTION: Compositions and Methods Relating to Breast Specific Genes and Pr
; FILE REFERENCE: DEX-0432
; CURRENT APPLICATION NUMBER: US/10/517,696
; CURRENT FILING DATE: 2004-12-13
; PRIOR APPLICATION NUMBER: US 60/389,327
; PRIOR FILING DATE: 2002-06-14
; NUMBER OF SEQ ID NOS: 171
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 141
; LENGTH: 420
; TYPE: PRT
; ORGANISM: Homo sapien
US-10-517-696-141
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US-10-517-696-141

Query Match 100.0%; Score 109; DB 6; Length 420;
Best Local Similarity 100.0%; Pred. No. 4.3e-08;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GSTAPPAHGVTSA PDTRPAP 20
DB 74 GSTAPPAHGVTSA PDTRPAP 93

RESULT 13
US-10-517-696-121

; Sequence 121, Application US/10517696
; Publication No. US20060051759A1
; GENERAL INFORMATION:
; APPLICANT: diadexus, Inc.
; APPLICANT: Salceda, Susana
; APPLICANT: Macina, Roberto A.
; APPLICANT: Turner, Leah R.
; APPLICANT: Sun, Yongming
; APPLICANT: Liu, Chenghua
; TITLE OF INVENTION: Compositions and Methods Relating to Breast Specific Genes and Pr
; FILE REFERENCE: DEX-0432
; CURRENT APPLICATION NUMBER: US/10/517,696
; CURRENT FILING DATE: 2004-12-13
; PRIOR APPLICATION NUMBER: US 60/389,327
; PRIOR FILING DATE: 2002-06-14
; NUMBER OF SEQ ID NOS: 171
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 121
; LENGTH: 463
; TYPE: PRT
; ORGANISM: Homo sapien
US-10-517-696-121

Query Match 100.0%; Score 109; DB 6; Length 463;
Best Local Similarity 100.0%; Pred. No. 4.8e-08;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GSTAPPAHGVTSA PDTRPAP 20
DB 117 GSTAPPAHGVTSA PDTRPAP 136

RESULT 14
US-10-501-035-309

; Sequence 309, Application US/10501035
; Publication No. US20060046249A1
; GENERAL INFORMATION:
; APPLICANT: Bristol-Myers Squibb Company
; TITLE OF INVENTION: IDENTIFICATION OF POLYNUCLEOTIDES AND POLYPEPTIDE FOR PREDICTING
; TITLE OF INVENTION: ACTIVITY OF COMPOUNDS THAT INTERACT WITH PROTEIN TYROSINE KINASE
; TITLE OF INVENTION: AND/OR PROTEIN TYROSINE KINASE PATHWAYS
; FILE REFERENCE: D0185 PCT
; CURRENT APPLICATION NUMBER: US/10/501,035
; CURRENT FILING DATE: 2004-07-09
; PRIOR APPLICATION NUMBER: US 60/350,061
; PRIOR FILING DATE: 2002-01-18
; NUMBER OF SEQ ID NOS: 795
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 309
; LENGTH: 475
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-501-035-309

Query Match 100.0%; Score 109; DB 6; Length 475;
Best Local Similarity 100.0%; Pred. No. 4.9e-08;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GSTAPPAHGVTSA PDTRPAP 20

DB 129 GSTAPPAHGVTSA PDTRPAP 148

RESULT 15
US-10-517-696-117

; Sequence 117, Application US/10517696
; Publication No. US20060051759A1
; GENERAL INFORMATION:
; APPLICANT: diadexus, Inc.
; APPLICANT: Salceda, Susana
; APPLICANT: Macina, Roberto A.
; APPLICANT: Turner, Leah R.
; APPLICANT: Sun, Yongming
; APPLICANT: Liu, Chenghua
; TITLE OF INVENTION: Compositions and Methods Relating to Breast Specific Genes and Pr
; FILE REFERENCE: DEX-0432
; CURRENT APPLICATION NUMBER: US/10/517,696
; CURRENT FILING DATE: 2004-12-13
; PRIOR APPLICATION NUMBER: US 60/389,327
; PRIOR FILING DATE: 2002-06-14
; NUMBER OF SEQ ID NOS: 171
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 117
; LENGTH: 475
; TYPE: PRT
; ORGANISM: Homo sapien
US-10-517-696-117

Query Match 100.0%; Score 109; DB 6; Length 475;
Best Local Similarity 100.0%; Pred. No. 4.9e-08;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GSTAPPAHGVTSA PDTRPAP 20
DB 129 GSTAPPAHGVTSA PDTRPAP 148

Search completed: March 27, 2006, 19:43:40
Job time : 10 secs

This Page Blank (uspto)

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OM nucleic - nucleic search, using bw model

Run on: March 27, 2006, 13:49:57 ; Search time 371.4 Seconds
(without alignments)
1335.925 Million cell updates/sec

Title: US-10-057-136a-2

Perfect score: 60
Sequence: 1 GGCTCCACCGCCCCCAGC.....CGGACACCGGCGCCCG 60

Scoring table: IDENTITY NUC
Gapop 10.0 , Gapext 1.0

Searched: 9793542 segs, 4134689005 residues

Total number of hits satisfying chosen parameters: 14089978

Minimum DB seq length: 0

Maximum DB seq length: 500

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

Published Applications NA_Main:*

- 1: /cgn2_6/ptodata/1/pubpna/US07_PUBCOMB.seq:*
- 2: /cgn2_6/ptodata/1/pubpna/US08_PUBCOMB.seq:*
- 3: /cgn2_6/ptodata/1/pubpna/US09A_PUBCOMB.seq:*
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- 8: /cgn2_6/ptodata/1/pubpna/US10E_PUBCOMB.seq:*
- 9: /cgn2_6/ptodata/1/pubpna/US11_PUBCOMB.seq:*
- 10: /cgn2_6/ptodata/1/pubpna/US11_PUBCOMB.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	length	ID	Description
1	60	100.0	60	US-10-057-136-2	Sequence 2, Appli
2	56.8	94.7	78	US-10-057-136-13	Sequence 13, Appl
3	54.2	90.3	164	US-09-864-864-258	Sequence 258, Appl
4	52.2	87.0	60	US-10-057-136-14	Sequence 14, Appl
5	43	71.7	60	US-10-057-136-7	Sequence 7, Appli
6	40.8	68.0	120	US-10-635-211-3	Sequence 3, Appli
7	40.8	68.0	162	US-10-635-211-8	Sequence 8, Appli
8	38.2	63.7	60	US-10-057-136-10	Sequence 10, Appl
9	36	60.0	60	US-10-057-136-11	Sequence 11, Appl
10	35.4	59.0	364	US-09-918-995-29996	Sequence 29996, A
11	35	58.3	60	US-10-057-136-5	Sequence 5, Appli
12	33.4	55.7	60	US-09-908-975-10883	Sequence 10883, A
13	33	55.0	93	US-10-471-607-4	Sequence 4, Appli
14	33	55.0	157	US-10-471-607-6	Sequence 6, Appli
15	32.6	54.3	39	US-10-057-136-15	Sequence 15, Appl
16	32.6	54.3	387	US-10-437-963-75143	Sequence 75143, A
17	31	51.7	429	US-10-487-901-1318	Sequence 1318, Ap
18	30.2	50.3	60	US-10-057-136-8	Sequence 8, Appli
19	30	50.0	240	US-10-437-963-84343	Sequence 84343, A
20	29.8	49.7	157	US-10-471-607-9	Sequence 9, Appli
21	29.2	48.7	90	US-10-296-734-1163	Sequence 1163, Ap
22	28.6	47.7	90	US-10-296-734-1159	Sequence 1159, Ap
23	28	46.7	295	US-09-788-297-31	Sequence 31, Appl

C	24	28	46.7	295	8	US-10-836-323-31	Sequence 31, Appl
C	25	28	46.7	295	10	US-11-003-941A-215	Sequence 215, App
C	26	27.8	46.3	40	7	US-10-447-839A-89	Sequence 89, Appl
C	27	27.8	46.3	40	8	US-10-778-859-89	Sequence 89, Appl
	28	27.4	45.7	60	5	US-10-057-136-9	Sequence 9, Appli
	29	27.4	45.7	60	5	US-10-057-136-12	Sequence 12, Appl
	30	27	45.0	27	10	US-11-055-119-51	Sequence 51, Appl
	31	27	45.0	60	5	US-10-057-136-4	Sequence 4, Appli
C	32	27	45.0	60	5	US-10-057-136-6	Sequence 6, Appli
C	33	27	45.0	401	8	US-10-425-115-106881	Sequence 106881,
C	34	27	45.0	423	5	US-10-144-649A-713	Sequence 713, App
C	35	27	45.0	423	5	US-10-144-649A-713	Sequence 713, App
	36	26.8	44.7	156	7	US-10-471-607-5	Sequence 2291, Ap
	37	26.4	44.0	183	6	US-10-156-761-2291	Sequence 566, App
C	38	26.4	44.0	394	5	US-10-062-727-566	Sequence 142523,
C	39	26.4	44.0	394	7	US-10-424-599-142523	Sequence 108137,
C	40	26.4	44.0	431	8	US-10-425-115-108137	Sequence 247732,
C	41	26.4	44.0	450	5	US-10-027-632-247732	Sequence 247732,
C	42	26.4	44.0	450	6	US-10-027-632-247732	Sequence 125126,
C	43	26	43.3	310	8	US-10-425-115-125126	Sequence 92903, A
C	44	26	43.3	402	7	US-10-437-963-92903	Sequence 1974, Ap
C	45	26	43.3	470	7	US-10-767-701-1974	

ALIGNMENTS

RESULT 1
US-10-057-136-2
; Sequence 2, Application US/10057136
; Publication No. US20030021770A1
; GENERAL INFORMATION:
; APPLICANT: SCHLOM, JEFFREY
; APPLICANT: KANTOR, JUDITH
; APPLICANT: KUFE, DONALD
; APPLICANT: PANICALI, DENNIS
; APPLICANT: GRITZ, LINDA
; TITLE OF INVENTION: RECOMBINANT POX VIRUS FOR IMMUNIZATION AGAINST MUCL
; TITLE OF INVENTION: TUMOR-ASSOCIATED ANTIGEN
; FILE REFERENCE: 700953/47113C
; CURRENT FILING DATE: US/10/057,136
; PRIOR FILING DATE: 2002-01-25
; PRIOR APPLICATION NUMBER: 09/366,670
; PRIOR FILING DATE: 1999-08-03
; PRIOR APPLICATION NUMBER: PCT/US98/03693
; PRIOR FILING DATE: 1998-02-24
; PRIOR APPLICATION NUMBER: 60/038,253
; NUMBER OF SEQ ID NOS: 20
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2
; LENGTH: 60
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-057-136-2

Query Match 100.0%; Score 60; DB 5; Length 60;
Best Local Similarity 100.0%; Pred. No. 4.3e-09;
Matches 60; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

CY 1 GGCTCCACCGCCCCCAGCGGTGTACCTCGGCGGACACACGAGCGGCCCG 60
Db 1 GGCTCCACCGCCCCCAGCGGTGTACCTCGGCGGACACACGAGCGGCCCG 60

RESULT 2
US-10-057-136-13
; Sequence 13, Application US/10057136
; Publication No. US20030021770A1
; GENERAL INFORMATION:
; APPLICANT: SCHLOM, JEFFREY
; APPLICANT: KANTOR, JUDITH
; APPLICANT: KUFE, DONALD

```
/ APPLICANT: PANICALI, DENNIS
/ APPLICANT: GRITZ, LINDA
/ TITLE OF INVENTION: RECOMBINANT POX VIRUS FOR IMMUNIZATION AGAINST MUC1
/ TITLE OF INVENTION: TUMOR-ASSOCIATED ANTIGEN
/ FILE REFERENCE: 700953/47113C
/ CURRENT APPLICATION NUMBER: US/10/057,136
/ CURRENT FILING DATE: 2002-01-25
/ PRIOR APPLICATION NUMBER: 09/366,670
/ PRIOR FILING DATE: 1999-08-03
/ PRIOR APPLICATION NUMBER: PCT/US98/03693
/ PRIOR FILING DATE: 1998-02-24
/ PRIOR APPLICATION NUMBER: 60/038,253
/ PRIOR FILING DATE: 1997-02-24
/ NUMBER OF SEQ ID NOS: 20
/ SOFTWARE: Patentln Ver. 2.1
/ SEQ ID NO 13
/ LENGTH: 78
/ TYPE: DNA
/ ORGANISM: Homo sapiens
US-10-057-136-13
```

```
Query Match          94.7%; Score 56.8; DB 5; Length 78;
Best Local Similarity 96.7%; Pred. No. 3.7e-08;
Matches 58; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
```

```
QY      1 GGCTCCACCGCCCCCAGCCCGCGTGTCACTTCGGCCCCCGACACCAAGCGGCCCCG 60
          |||||
Db      1 GGCTCCACCGCAGCCCGCAGCCCGCGTGTCACTTCGGCCCCCGACACCAAGCGGCCCCG 60
```

```
RESULT 3
US-09-864-864-258
/ Sequence 258, Application US/09864864
/ Patent No. US20020102679A1
/ GENERAL INFORMATION:
```

```
/ APPLICANT: Xu, Jiangchun
/ APPLICANT: Mitcham, Jennifer L.
/ APPLICANT: Harlocker, Susan L.
/ APPLICANT: Dillon, Davin C.
/ APPLICANT: Secrist, Heather
/ APPLICANT: Lodes, Michael J.
/ APPLICANT: Algate, Paul A.
/ APPLICANT: Fling, Steve P.
/ APPLICANT: Mannion, Jane
/ APPLICANT: Benson, Darin R.
/ APPLICANT: Carter, Darick
/ TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
/ TITLE OF INVENTION: AND DIAGNOSIS OF OVARIAN CANCER
/ FILE REFERENCE: 210121.523
/ CURRENT APPLICATION NUMBER: US/09/864,864
/ CURRENT FILING DATE: 2001-05-23
/ NUMBER OF SEQ ID NOS: 341
/ SOFTWARE: Corixa Invention Disclosure Database
/ SEQ ID NO 258
/ LENGTH: 164
/ TYPE: DNA
/ ORGANISM: Homo sapiens
/ FEATURE:
/ NAME/KEY: misc_feature
/ LOCATION: (1)...(164)
/ OTHER INFORMATION: n = A,T,C or G
US-09-864-864-258
```

```
Query Match          90.3%; Score 54.2; DB 3; Length 164;
Best Local Similarity 93.3%; Pred. No. 1.9e-07;
Matches 56; Conservative 0; Mismatches 4; Indels 0; Gaps 0;
```

```
QY      1 GGCTCCACCGCCCCCAGCCCGCGTGTCACTTCGGCCCCCGACACCAAGCGGCCCCG 60
          |||||
Db      42 GGCTCCACCGCCCCCAGCCCGCGTGTCACTTCGGCCCCCGACANCAAGCGGCCCCG 101
```

```
RESULT 4
```

2

```
US-10-057-136-14
/ Sequence 14, Application US/10057136
/ Publication No. US20030021770A1
/ GENERAL INFORMATION:
/ APPLICANT: SCHLOM, JEFFREY
/ APPLICANT: KANTOR, JUDITH
/ APPLICANT: KUFE, DONALD
/ APPLICANT: PANICALI, DENNIS
/ APPLICANT: GRITZ, LINDA
/ TITLE OF INVENTION: RECOMBINANT POX VIRUS FOR IMMUNIZATION AGAINST MUC1
/ TITLE OF INVENTION: TUMOR-ASSOCIATED ANTIGEN
/ FILE REFERENCE: 700953/47113C
/ CURRENT APPLICATION NUMBER: US/10/057,136
/ CURRENT FILING DATE: 2002-01-25
/ PRIOR APPLICATION NUMBER: 09/366,670
/ PRIOR FILING DATE: 1999-08-03
/ PRIOR APPLICATION NUMBER: PCT/US98/03693
/ PRIOR FILING DATE: 1998-02-24
/ PRIOR APPLICATION NUMBER: 60/038,253
/ PRIOR FILING DATE: 1997-02-24
/ NUMBER OF SEQ ID NOS: 20
/ SOFTWARE: Patentln Ver. 2.1
/ SEQ ID NO 14
/ LENGTH: 60
/ TYPE: DNA
/ ORGANISM: Homo sapiens
US-10-057-136-14
```

```
Query Match          87.0%; Score 52.2; DB 5; Length 60;
Best Local Similarity 94.7%; Pred. No. 1e-06;
Matches 54; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
```

```
QY      1 GGCTCCACCGCCCCCAGCCCGCGTGTCACTTCGGCCCCCGACACCAAGCGGCCCC 57
          |||||
Db      1 GGCTCCACCGCCCCCAGCCCGCATGTGTCACTTCGGCCCCCGACACCAAGCGGCCCC 57
```

```
RESULT 5
US-10-057-136-7
```

```
/ Sequence 7, Application US/10057136
/ Publication No. US20030021770A1
/ GENERAL INFORMATION:
/ APPLICANT: SCHLOM, JEFFREY
/ APPLICANT: KANTOR, JUDITH
/ APPLICANT: KUFE, DONALD
/ APPLICANT: PANICALI, DENNIS
/ APPLICANT: GRITZ, LINDA
/ TITLE OF INVENTION: RECOMBINANT POX VIRUS FOR IMMUNIZATION AGAINST MUC1
/ TITLE OF INVENTION: TUMOR-ASSOCIATED ANTIGEN
/ FILE REFERENCE: 700953/47113C
/ CURRENT APPLICATION NUMBER: US/10/057,136
/ CURRENT FILING DATE: 2002-01-25
/ PRIOR APPLICATION NUMBER: 09/366,670
/ PRIOR FILING DATE: 1999-08-03
/ PRIOR APPLICATION NUMBER: PCT/US98/03693
/ PRIOR FILING DATE: 1998-02-24
/ PRIOR APPLICATION NUMBER: 60/038,253
/ PRIOR FILING DATE: 1997-02-24
/ NUMBER OF SEQ ID NOS: 20
/ SOFTWARE: Patentln Ver. 2.1
/ SEQ ID NO 7
/ LENGTH: 60
/ TYPE: DNA
/ ORGANISM: Homo sapiens
US-10-057-136-7
```

```
Query Match          71.7%; Score 43; DB 5; Length 60;
Best Local Similarity 83.1%; Pred. No. 0.00065;
Matches 49; Conservative 0; Mismatches 10; Indels 0; Gaps 0;
```

```
QY      1 GGCTCCACCGCCCCCAGCCCGCGTGTCACTTCGGCCCCCGACACCAAGCGGCCCC 59
          |||||
Db      1 GGTTCGACGGCCCCCTGTCTCAAGGTGTACATCCGCCCCGATACCAAGACGGCCCC 59
```

```
RESULT 6
US-10-635-211-3
; Sequence 3, Application US/10635211
; Publication No. US20050031649A1
; GENERAL INFORMATION:
; APPLICANT: Beijing HYDVAX Biotechnology Co. Ltd
; TITLE OF INVENTION: A recombinant fusion protein comprising BCG heat shock protein 65
; FILE REFERENCE: FP03012US
; CURRENT APPLICATION NUMBER: US/10/635,211
; CURRENT FILING DATE: 2003-08-06
; NUMBER OF SEQ ID NOS: 9
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 3
; LENGTH: 120
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (1)..(120)
US-10-635-211-3
```

```
Query Match          68.0%; Score 40.8; DB 8; Length 120;
Best Local Similarity 80.0%; Pred. No. 0.0025;
Matches 48; Conservative 0; Mismatches 12; Indels 0; Gaps 0;
```

```
OY      1 GGCCTCACCGCCCCCGAGCCGAGGTGTACCTCGGCCCCGGACACCAAGCGCGCCCCG 60
          |||||
Db       1 GGTTTACCGCTCCGCGGCTCACGGGTGTACCTCTGCTCCGGACACCCGTCGGGCTCCG 60
```

```
RESULT 7
US-10-635-211-8/c
; Sequence 8, Application US/10635211
; Publication No. US20050031649A1
; GENERAL INFORMATION:
; APPLICANT: Beijing HYDVAX Biotechnology Co. Ltd
; TITLE OF INVENTION: A recombinant fusion protein comprising BCG heat shock protein 65
; FILE REFERENCE: FP03012US
; CURRENT APPLICATION NUMBER: US/10/635,211
; CURRENT FILING DATE: 2003-08-06
; NUMBER OF SEQ ID NOS: 9
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 8
; LENGTH: 162
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Primer
US-10-635-211-8
```

```
Query Match          68.0%; Score 40.8; DB 8; Length 162;
Best Local Similarity 80.0%; Pred. No. 0.0023;
Matches 48; Conservative 0; Mismatches 12; Indels 0; Gaps 0;
```

```
OY      1 GGCCTCACCGCCCCCGAGCCGAGGTGTACCTCGGCCCCGGACACCAAGCGCGCCCCG 60
          |||||
Db       1 GGTTCACCGCTCCGCGGCTCACGGGTGTACCTCTGCTCCGGACACCCGTCGGGCTCCG 79
```

```
RESULT 8
US-10-057-136-10
; Sequence 10, Application US/10057136
; Publication No. US20030021770A1
; GENERAL INFORMATION:
; APPLICANT: SCHLOM, JEFFREY
; APPLICANT: KANTOR, JUDITH
; APPLICANT: KUFE, DONALD
; APPLICANT: PANICALI, DENNIS
; APPLICANT: GRITZ, LINDA
```

```
; TITLE OF INVENTION: RECOMBINANT POX VIRUS FOR IMMUNIZATION AGAINST MUC1
; FILE REFERENCE: 700953/47113C
; CURRENT APPLICATION NUMBER: US/10/057,136
; CURRENT FILING DATE: 2002-01-25
; PRIOR APPLICATION NUMBER: 09/366,670
; PRIOR FILING DATE: 1999-08-03
; PRIOR APPLICATION NUMBER: PCT/US98/03693
; PRIOR FILING DATE: 1998-02-24
; PRIOR APPLICATION NUMBER: 60/038,253
; PRIOR FILING DATE: 1997-02-24
; NUMBER OF SEQ ID NOS: 20
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 10
; LENGTH: 60
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-057-136-10
```

```
Query Match          63.7%; Score 38.2; DB 5; Length 60;
Best Local Similarity 78.0%; Pred. No. 0.019;
Matches 46; Conservative 0; Mismatches 13; Indels 0; Gaps 0;
```

```
OY      1 GGCCTCACCGCCCCCGAGCCGAGGTGTACCTCGGCCCCGGACACCAAGCGCGCCCC 59
          |||||
Db       1 GGTCGACTGCCCTCCGCGGCTGAGTGTGACCTCAGCTCTGACACCAAGGCCAGCCCC 59
```

```
RESULT 9
US-10-057-136-11
; Sequence 11, Application US/10057136
; Publication No. US20030021770A1
; GENERAL INFORMATION:
; APPLICANT: SCHLOM, JEFFREY
; APPLICANT: KANTOR, JUDITH
; APPLICANT: KUFE, DONALD
; APPLICANT: PANICALI, DENNIS
; APPLICANT: GRITZ, LINDA
; TITLE OF INVENTION: RECOMBINANT POX VIRUS FOR IMMUNIZATION AGAINST MUC1
; FILE REFERENCE: 700953/47113C
; CURRENT APPLICATION NUMBER: US/10/057,136
; CURRENT FILING DATE: 2002-01-25
; PRIOR APPLICATION NUMBER: 09/366,670
; PRIOR FILING DATE: 1999-08-03
; PRIOR APPLICATION NUMBER: PCT/US98/03693
; PRIOR FILING DATE: 1998-02-24
; PRIOR APPLICATION NUMBER: 60/038,253
; PRIOR FILING DATE: 1997-02-24
; NUMBER OF SEQ ID NOS: 20
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 11
; LENGTH: 60
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-057-136-11
```

```
Query Match          60.0%; Score 36; DB 5; Length 60;
Best Local Similarity 75.0%; Pred. No. 0.089;
Matches 45; Conservative 0; Mismatches 15; Indels 0; Gaps 0;
```

```
OY      1 GGCCTCACCGCCCCCGAGCCGAGGTGTACCTCGGCCCCGGACACCAAGCGCGCCCCG 60
          |||||
Db       1 GGTTCAAGGCACTCCAGACACGAGTCACTGTGACACCCGACACCCGTCGAGCTCCG 60
```

```
RESULT 10
US-09-918-995-29996/c
; Sequence 29996, Application US/09918995
; Publication No. US20030073623A1
; GENERAL INFORMATION:
; APPLICANT: Hyseq, Inc.
; TITLE OF INVENTION: NOVEL NUCLEIC ACID SEQUENCES OBTAINED
```



```
; TITLE OF INVENTION: FROM VARIOUS CDNA LIBRARIES
; FILE REFERENCE: 20411-756
; CURRENT APPLICATION NUMBER: US/09/918, 995
; CURRENT FILING DATE: 2001-07-30
; PRIOR APPLICATION NUMBER: US/09/235, 076
; PRIOR FILING DATE: 1999-01-20
; NUMBER OF SEQ ID NOS: 38054
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 29996
; LENGTH: 364
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-918-995-29996
```

```
Query Match          59.0%; Score 35.4; DB 3; Length 364;
Best Local Similarity 97.3%; Pred. No. 0.082;
Matches 36; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

```
OY      1 GGCTCCACCGCCCCCGACGGGTGTCACTCGG 37
          |||||
Db      37 GGCTCCACCGCCCCCGACGGGTGTCACTCGG 1
```

RESULT 11

```
US-10-057-136-5
; Sequence 5, Application US/10057136
; Publication No. US20030021770A1
; GENERAL INFORMATION:
; APPLICANT: SCHLOM, JEFFREY
; APPLICANT: KANTOR, JUDITH
; APPLICANT: KUFER, DONALD
; APPLICANT: PANICALI, DENNIS
; APPLICANT: GRITZ, LINDA
; TITLE OF INVENTION: RECOMBINANT POX VIRUS FOR IMMUNIZATION AGAINST MUC1
; FILE REFERENCE: 700953/47113C
; CURRENT APPLICATION NUMBER: US/10/057,136
; CURRENT FILING DATE: 2002-01-25
; PRIOR APPLICATION NUMBER: 09/366,670
; PRIOR FILING DATE: 1999-08-03
; PRIOR APPLICATION NUMBER: PCT/US98/03693
; PRIOR FILING DATE: 1998-02-24
; PRIOR APPLICATION NUMBER: 60/038,253
; PRIOR FILING DATE: 1997-02-24
; NUMBER OF SEQ ID NOS: 20
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 5
; LENGTH: 60
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-057-136-5
```

```
Query Match          58.3%; Score 35; DB 5; Length 60;
Best Local Similarity 74.6%; Pred. No. 0.18;
Matches 44; Conservative 0; Mismatches 15; Indels 0; Gaps 0;
```

```
OY      1 GGCTCCACCGCCCCCGACGGGTGTCACTCGGCCCCGAGACACGAGCCGCGCCC 59
          |||||
Db      1 GGATCCACCGCGCGCTCGGACGAGTAGCTGCGCGCCCGACACGCGCGCGCTCC 59
```

RESULT 12

```
US-09-908-975-10883/C
; Sequence 10883, Application US/09908975
; Publication No. US20030165843A1
; GENERAL INFORMATION:
; APPLICANT: SHOSHAN, AVI
; APPLICANT: WASSERMAN, ALON
; APPLICANT: MINTZ, ELI
; APPLICANT: MINTZ, LIAT
; APPLICANT: FAIGLER, SIMCHON
; TITLE OF INVENTION: OLIGONUCLEOTIDE LIBRARY FOR DETECTING RNA TRANSCRIPTS AND SPLICING
; TITLE OF INVENTION: THAT POPULATE A TRANSCRIPTOME
```

```
; FILE REFERENCE: 36688-0005
; CURRENT APPLICATION NUMBER: US/09/908, 975
; CURRENT FILING DATE: 2001-07-20
; PRIOR APPLICATION NUMBER: US 60/287,724
; PRIOR FILING DATE: 2001-05-02
; PRIOR APPLICATION NUMBER: US 60/221,607
; PRIOR FILING DATE: 2000-07-28
; NUMBER OF SEQ ID NOS: 32337
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 10883
; LENGTH: 60
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-908-975-10883
```

```
Query Match          55.7%; Score 33.4; DB 3; Length 60;
Best Local Similarity 86.0%; Pred. No. 0.55;
Matches 37; Conservative 0; Mismatches 6; Indels 0; Gaps 0;
```

```
OY      18 AGCCACGGTGTCACTCGGCCCCGACACACGAGCCGCGCCCG 60
          |||||
Db      60 AGCCGTGCGTGTCACTCGGCCCCGAGAGACAGCGCGCGCCCG 18
```

RESULT 13

```
US-10-471-607-4/C
; Sequence 4, Application US/10471607
; Publication No. US20040115740A1
; GENERAL INFORMATION:
; APPLICANT: The Victoria University of Manchester
; APPLICANT: Benson, Roderick
; TITLE OF INVENTION: Intracellular analysis.
; FILE REFERENCE: P088857PWO
; CURRENT APPLICATION NUMBER: US/10/471,607
; CURRENT FILING DATE: 2003-09-24
; PRIOR APPLICATION NUMBER: GB 0108165.2
; PRIOR FILING DATE: 3001-03-21
; NUMBER OF SEQ ID NOS: 16
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 4
; LENGTH: 93
; TYPE: DNA
; ORGANISM: Artificial
; FEATURE:
; OTHER INFORMATION: Artificial epitope construct
US-10-471-607-4
```

```
Query Match          55.0%; Score 33; DB 7; Length 93;
Best Local Similarity 79.6%; Pred. No. 0.65;
Matches 39; Conservative 0; Mismatches 10; Indels 0; Gaps 0;
```

```
OY      1 GGCTCCACCGCCCCCGACGCCGAGTGTCACTCGGCCCGGACACCA 49
          |||||
Db      57 GGCTCAACAGCCCCCGACGCTCATGTGTCACTCACTCCGAGTCGA 9
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RESULT 14

```
US-10-471-607-6
; Sequence 6, Application US/10471607
; Publication No. US20040115740A1
; GENERAL INFORMATION:
; APPLICANT: The Victoria University of Manchester
; APPLICANT: Benson, Roderick
; TITLE OF INVENTION: Intracellular analysis.
; FILE REFERENCE: P088857PWO
; CURRENT APPLICATION NUMBER: US/10/471,607
; CURRENT FILING DATE: 2003-09-24
; PRIOR APPLICATION NUMBER: GB 0108165.2
; PRIOR FILING DATE: 3001-03-21
; NUMBER OF SEQ ID NOS: 16
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 6
; LENGTH: 157
```

```
; TYPE: DNA
; ORGANISM: Artificial
; FEATURE:
; OTHER INFORMATION: Artificial epitope construct
US-10-471-607-6
```

```
Query Match          55.0%; Score 33; DB 7; Length 157;
Best Local Similarity 79.6%; Pred. No. 0.56;
Matches 39; Conservative 0; Mismatches 10; Indels 0; Gaps 0;
```

```
OY      1 GGCTCCACCGCCCCCGAGCCGAGGTGTACCTCGGCCCGACACCA 49
        ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db       101 GGCTCAACAGCCCCCGCAGCTCATGTGTACCTCAGCTCCGAGTCGA 149
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RESULT 15

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US-10-057-136-15
; Sequence 15, Application US/10057136
; Publication No. US20030021770A1
; GENERAL INFORMATION:
; APPLICANT: SCHLOM, JEFFREY
; APPLICANT: KANTOR, JUDITH
; APPLICANT: KUFU, DONALD
; APPLICANT: PANICALI, DENNIS
; APPLICANT: GRITZ, LINDA
; TITLE OF INVENTION: RECOMBINANT POX VIRUS FOR IMMUNIZATION AGAINST MUC1
; FILE REFERENCE: 700953/47113C
; CURRENT APPLICATION NUMBER: US/10/057,136
; PRIOR FILING DATE: 2002-01-25
; PRIOR APPLICATION NUMBER: 09/366,670
; PRIOR FILING DATE: 1999-08-03
; PRIOR APPLICATION NUMBER: PCT/US98/03693
; PRIOR FILING DATE: 1998-02-24
; PRIOR APPLICATION NUMBER: 60/038,253
; PRIOR FILING DATE: 1997-02-24
; NUMBER OF SEQ ID NOS: 20
; SOFTWARE: Patentln Ver. 2.1
; SEQ ID NO 15
; LENGTH: 39
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-057-136-15
```

```
Query Match          54.3%; Score 32.6; DB 5; Length 39;
Best Local Similarity 89.7%; Pred. No. 1.1;
Matches 35; Conservative 0; Mismatches 4; Indels 0; Gaps 0;
```

```
OY      1 GGCTCCACCGCCCCCGAGCCGAGGTGTACCTCGGCC 39
        ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db       1 GGCTCCACCGCCCCCGCAGTCACCAATGTCACTCGGCC 39
```

```
Search completed: March 27, 2006, 17:07:45
Job time : 371.4 secs
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